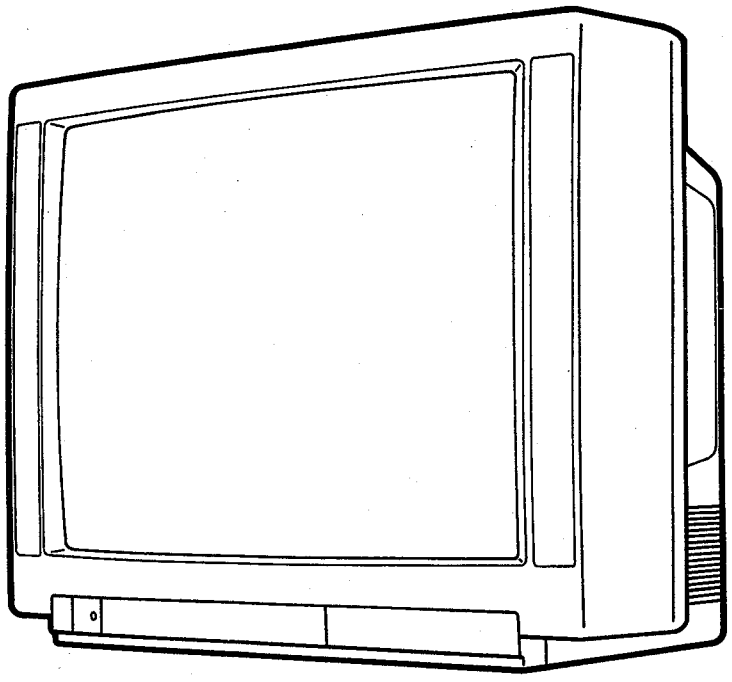
1993

MITSUBISHI

Service Manual



MODÈLE

CT-25A6FM
CT-29A6FM

MITSUBISHI ELECTRIC CORPORATION

CARACTERISTIQUES

Système de réception	: CCIR (B/G, I, L)
Système de couleur	: PAL/SECAM
Canaux	
VHF	: 47~307.5 MHz
UHF	: 470~862 MHz
Tension secteur	: 230V AC 50 Hz
Consommation	: 85W [modèle 25″] 100W [modèle 29″]
Entrée antenne	: 75 Ohms
Fréquence intermédiaire	: Vidéo 38.9, 34.47 MHz Son 33.4, 32.9, 32.4, 40.97MHz
Sortie audio	: 15W + 15W
Haut-parleurs	: 80mm × 120mm ovales – 2 pièces
Chassis	: E12
Tube cathodique	: A59EAK71X01 25″ 110° Deflection [modéle 25″] A68EAU28X01 29″ 110° Deflection [modéle 29″]
Dimensions du coffret	: mm 630 X 495 X 440 (L X H X P) [modéle 25″] mm 710 X 470 X 530 (L X H X P) [modéle 29″]
Poids approximatif	: 29.7 KG [modèle 25″] 35.4 KG [modèle 29″]

PRECAUTIONS DE SECURITE

NOTE : Observer les recommandations de sécurité se trouvant sur le chassis et sur le fond de l'appareil.

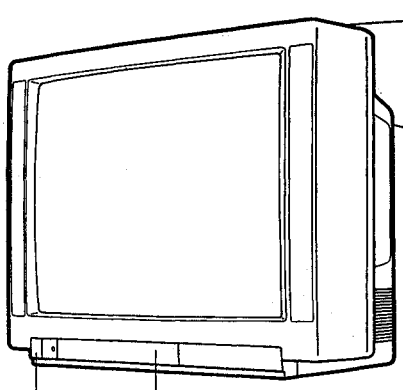
AVERTISSEMENT:

1. Un transformateur d'isolement devra être installé entre le téléviseur et la prise secteur avant tout réglage sur le chassis chaud du téléviseur.
2. La mise sous tension d'un poste à chassis ouvert implique la présence de très hautes tensions dans le poste. En conséquence, seules des personnes suffisamment familiarisées avec les précautions d'usage peuvent entreprendre un travail sur l'appareil.
3. Ne pas installer, démonter ou manipuler un tube cathodique sans porter des lunettes de protection. Pendant la manipulation, tenir le tube éloigné du corps et ne pas laisser approcher le personnel ne portant pas de lunettes de protection.
4. Si une intervention est requise, observer le câblage d'origine et tout particulièrement dans la partie très haute tension de l'appareil. Si un courtcircuit est détecté, remplacer les composants montrant des signes évidents d'échauffement.

CONTROLE STATIQUE DE COURANT DE FUITE

Il est recommandé d'effectuer le contrôle de courant de fuite suivant la méthode ci-dessous avant de retourner l'appareil à l'utilisateur.
Deconnecter le cordon d'alimentation de la prise secteur et court-circuiter les deux bornes de la prise.
Mettre l'interrupteur secteur en position Marche et brancher un ohmmètre entre l'une des bornes court-circuitées du cordon secteur et une quelconque partie métallique extérieure du téléviseur (prise d'antenne, poignée métallique, etc...).
Les parties métalliques accessibles ayant un chemin de retour au chassis doivent avoir une résistance minimale de 4 még ohms.
Une mesure en dessous de cette valeur indique une anomalie qui exige une intervention corrective.

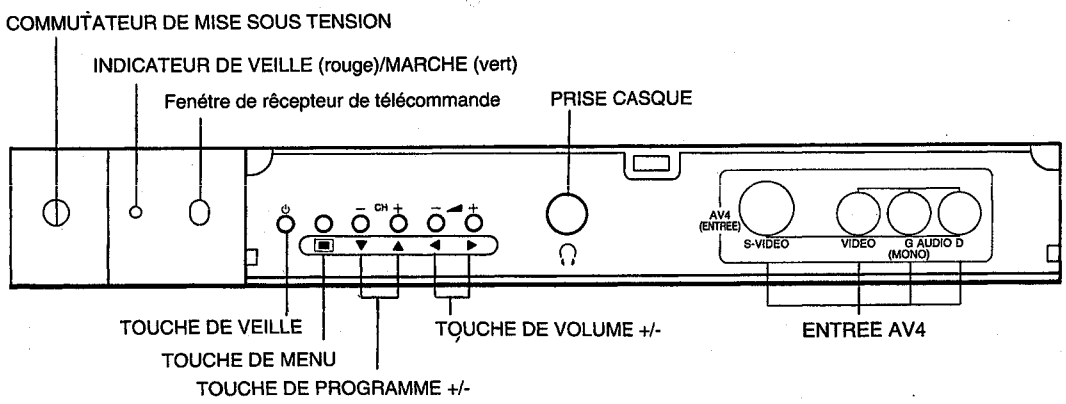
EMPLACEMENT DES FONCTIONS



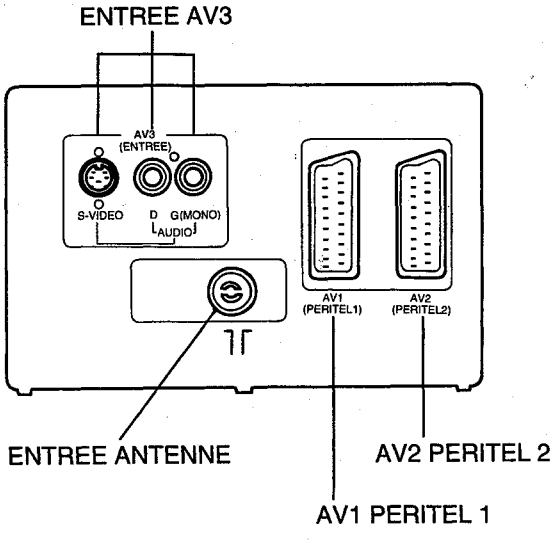
COMMUTATEUR DE MISE SOUS TENSION
(BOUTON MARCHE/ARRET)

COUVERCLE DU PANNEAU DE COMMANDE
(pousser pour ouvrir)

PANNEAU DE COMMANDE ET COMMUTATEUR DE MISE SOUS TENSION

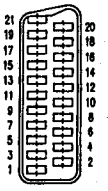


REMARQUE : Lorsque l'on appuie sur la touche MENU, les touches PROGRAMME et VOLUME commandent toutes les fonctions du MENU.



VUE ARRIERE

RACCORDEMENTS A LA PRISE PERITEL



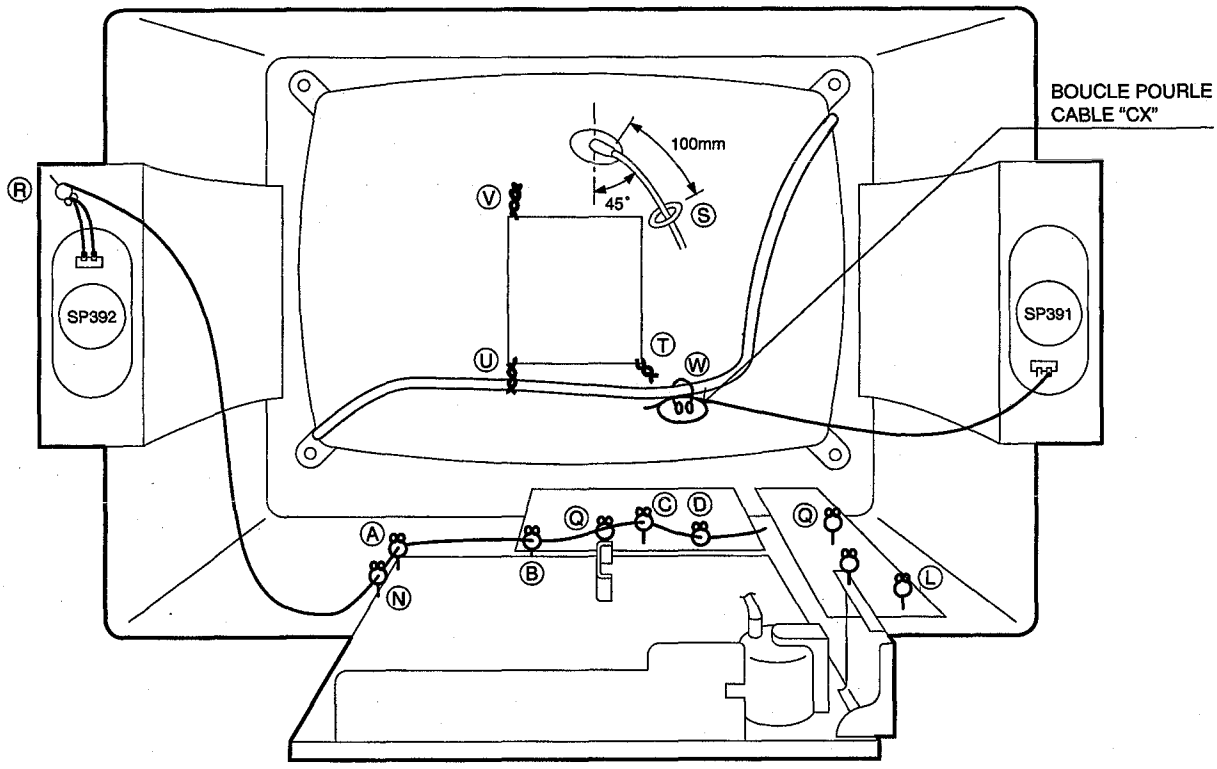
BROCHE	AV1	AV2	BROCHE	AV1	AV2
1	SORTIE AUDIO DROITE		12	NON CONNECTE	
2	ENTREE AUDIO DROITE		13	MASSE ROUGE	NON CONNECTE
3	SORTIE AUDIO GAUCHE		14	MASSE SUPPRESSION	NON CONNECTE
4	MASSE AUDIO		15	ENTREE ROUGE	NON CONNECTE
5	MASSE BLEU	NON CONNECTE	16	ENTREE SUPPRESSION	NON CONNECTE
6	ENTREE AUDIO GAUCHE		17	MASSE SORTIE VIDEO	
7	ENTREE BLEU	NON CONNECTE	18	MASSE ENTREE VIDEO	
8	COMMUTATION LENTE		19	SORTIE VIDEO	
9	MASSE VERT	NON CONNECTE	20	ENTREE VIDEO	
10	NON CONNECTE		21	MASSE COMMUNE	
11	ENTREE VERT	NON CONNECTE			

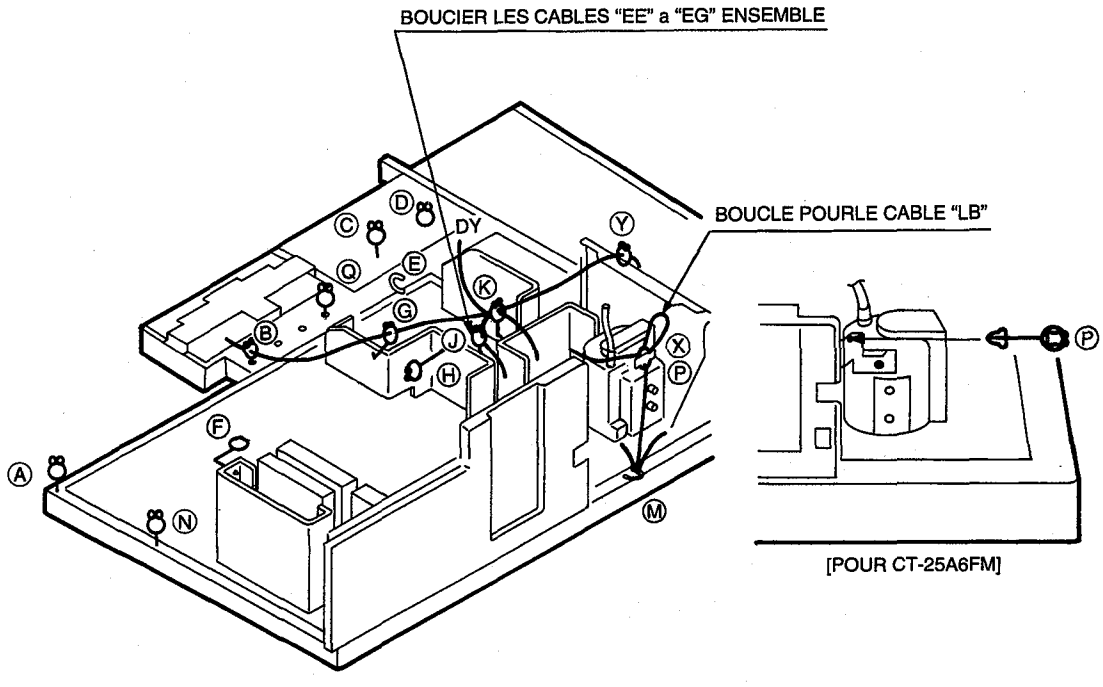
CHEMIN DE CABLAGE

LES CABLES DOIVENT ETRE POSITIONNES COMME INDIQUES SUR LA TABLE CI-DESSOUS

NOTE: LES CABLES INTERIEURS SONT FIXES OU POSITIONNES DE FACON A NE PAS SUBIR LE RAYONNEMENT EMIS PAR LE TRANSFORMATEUR HAUTE TENSION. APRES TOUTE INTERVENTION LES CABLES DOIVENT ETRE REMIS DANS LEUR POSITION INITIALE.

SI UNE INITERVENTION DOIT ETRE REALISEE SUR L'ANODE DE LA THT, IL EST NECESSAIRE DE RESPECTER L'ANGLE LORS DE LA REMISE EN ETAT.





LISTE FIXATIONS POUR CONNECTEURS

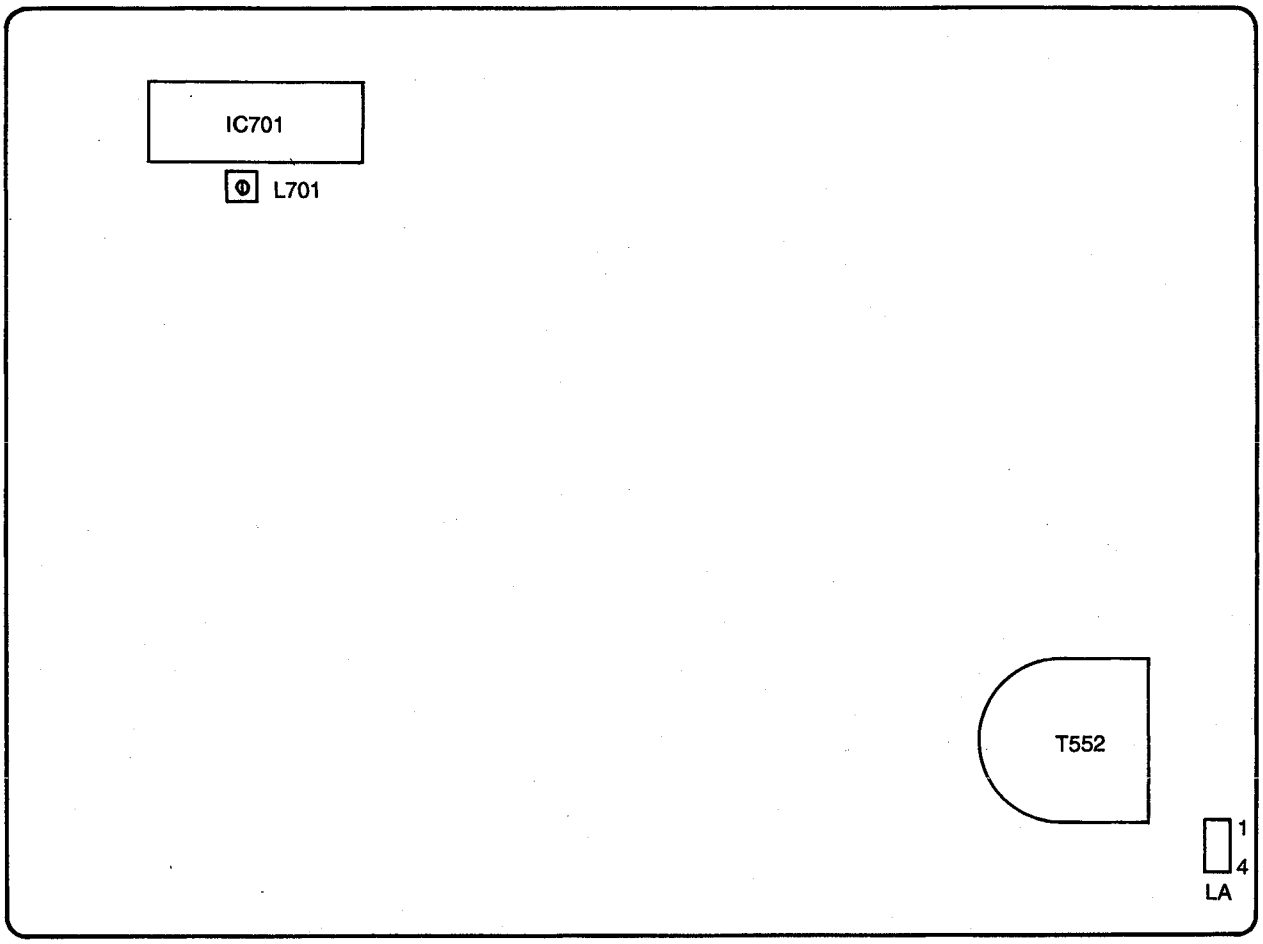
REPERE		CONNEXIOUS A FIXER
25″	29″	
CABLE ANODE	CABLE ANODE	S
CD	CD	N-A-B
CE	CE	Q
	CG	H-G
CG		H-G-B
CH	CH	F-N-A-B
CX	CX	J-K-G-W(Faire une boucle)
	DY	K
DY		K-G
	EB	Y
	EC	Y
	ED	H-K-Y
	EE	J(Faire une boucle)-K-Y
	EG	J(Faire une boucle)-K-Y
	EH	Y
	CABLE FOCUS	X-T
CABLE FOCUS		P-J-T
GA	GA	H-U-V
HE	HE	N-A-B-Q-C-D
HG	HG	A-B-Q-C-D

REPERE		CONNEXIOUS A FIXER
25″	29″	
HL	HL	A-B-Q-C-D
	JD	H-G-Q-C
JD		H-G-B-Q-C
JE	JE	F-N-A-B-Q-C
	JG	A-B-G-K-Y
KA	KA	L
KC	KC	E-D
	LB	M-X(Faire une boucle)-T-U
LB		M-P(Faire une boucle)-J-T-U
PC	PC	Q-W
SA	SA	T(2 serre-cables)
	CABLE SCREEN	M-X-T-U
CABLE SCREEN		M-P-T-U
D		D SP391 C-Q-B-G-K-W
	SP391	D C-Q-B-G-K(Faire une boucle)-W
G	SP392	G SP392 C-Q-B-A-N-R

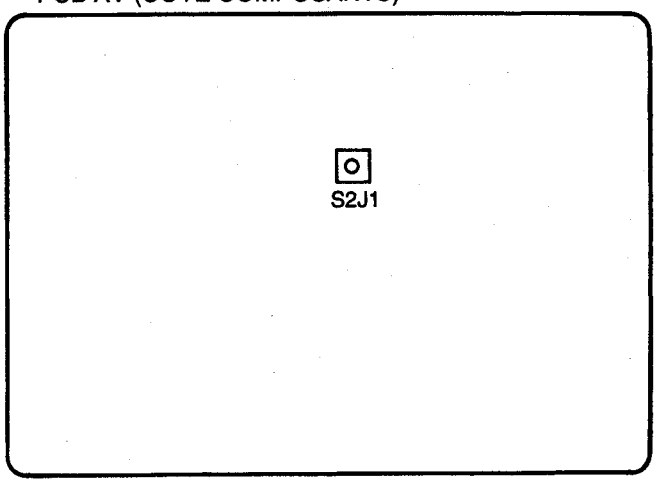
UTILISER UN CORDON D'EXTENSION POUR LA MAINTENANCE

PLATINE	CONNECTEUR	REFERENCE
AV	CB (5 BROCHES) CC (8 BROCHES)	859C431O30
TEXT	HA (8 BROCHES) HB (5 BROCHES)	
AV-IN-ST	DE (5 BROCHES)	
AV	CA (13 BROCHES)	859C431O50
AV-IN-ST	DD (13 BROCHES)	

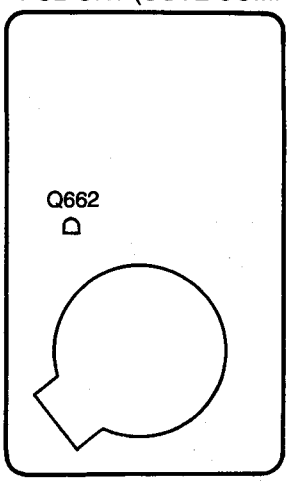
PLATINE PRINCIPALE (COTE COMPOSANTS)



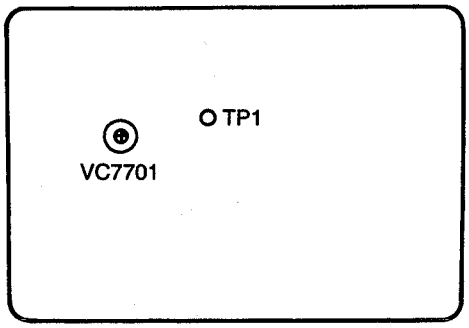
PCB AV (COTE COMPOSANTS)



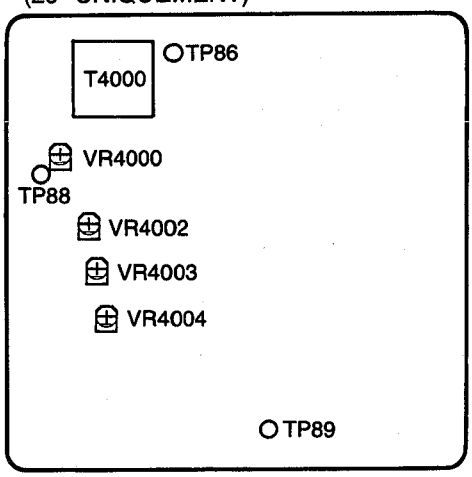
PCB CRT (COTE COMPOSANTS)



PCB TEXTE (COTE COMPOSANTS)



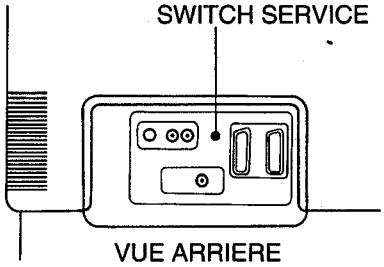
PCB PCC (COTE COMPOSANTS)
(29" UNIQUEMENT)



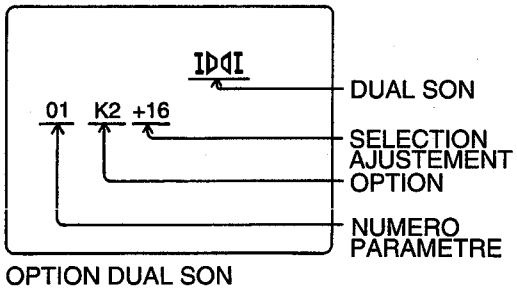
UTILISATION DE LA TELECOMMANDE

Ce téléviseur est normalement ajusté à l'aide de la télécommande, en effet, il est possible d'accéder à l'EEPROM et d'y modifier ses données.

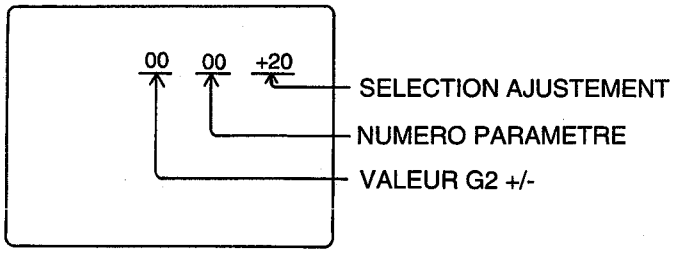
1. Mettre le téléviseur sous tension.
   Presser le switch service (S2J1), puis la touche "9" de la télécommande dans les 5 secondes qui suivent afin de passer en mode service.



2. Presser la touche "CM" pour sélectionner les circuits VCJ ou DUAL SOUND.



OPTION DUAL SON

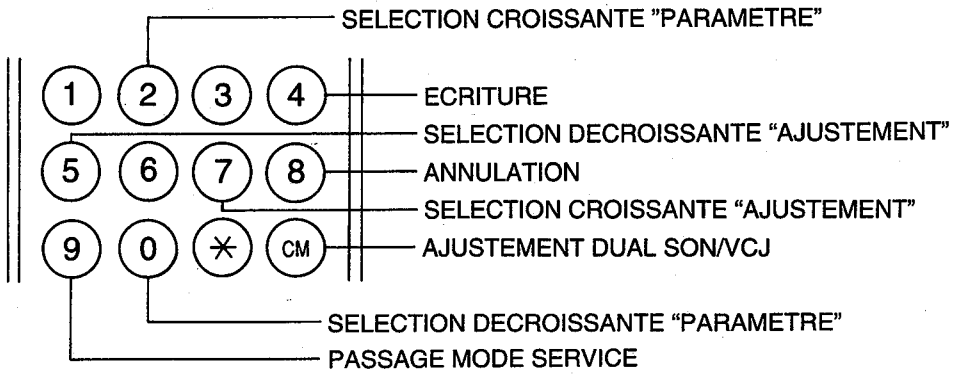


AJUSTEMENT VCJ

3. Presser les touches "2" ou "0" (pour accroître ou décrôitre le nombre correspondant au paramètre à ajuster).

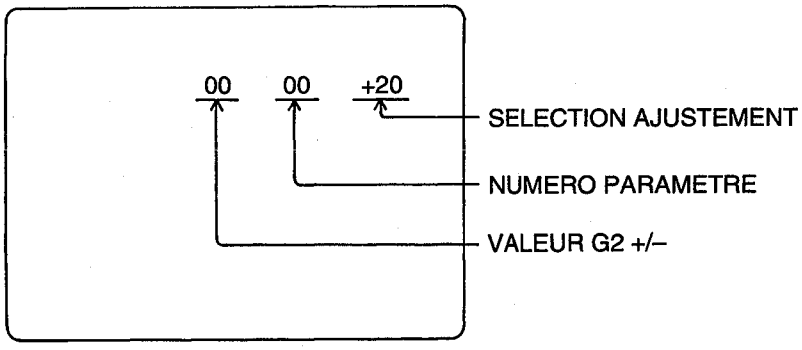
4. Presser la touche "7" (afin d'augmenter la valeur de l'ajustement) ou la touche "5" (pour diminuer cette même valeur).

5. Lorsque la juste valeur est trouvée, presser la touche "4" (écriture) afin de transférer les informations dans l'EEPROM. Si vous désirez annuler votre nouvel ajustement, presser la touche "8" ou l'interrupteur Marche/Arrêt. Dans ce cas, l'EEPROM conservera la dernière valeur mémorisée.



AVANT AJUSTEMENT

1. Appliquer un signal d'antenne.
2. Presser le switch service (S2J1) et la touche "9" de la télécommande dans les 5 seconds qui suivent pour accéder au mode service.
3. Presser la touche "CM" pour sélectionner le circuit VCJ.
4. S'assurer que les informations G2 +/– sont à "00".
   Si ce n'est pas le cas, afficher "00" à l'aide du potentiomètre positionné sur le transfo THT.

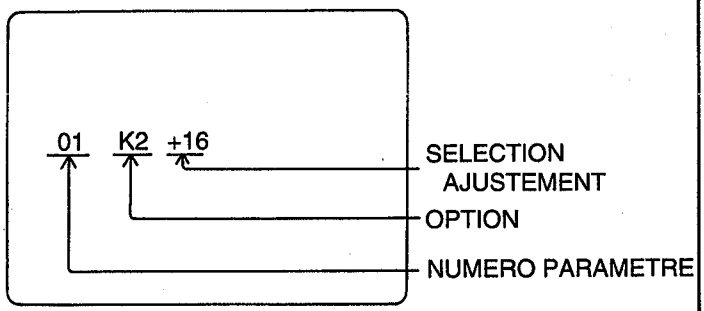


AJUSTEMENT VCJ

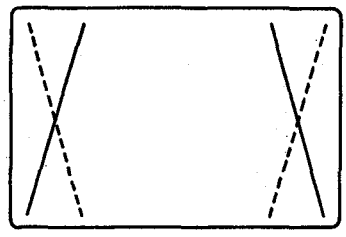
AJUSTEMENT

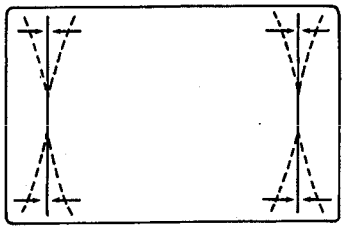
<table>
<tr><th>No.</th><th>ITEM</th><th>METHODE D' AJUSTEMENT</th><th>PROCEDURE D' AJUSTEMENT</th></tr>
<tr><td>1</td><td>OPTION</td><td>• 03 (TUNER PACK)
• 04 (E11/E12)
• 05 (DUAL SOUND)
• 06 (COULEUR)
• 07 (TEXTE)
• 08 (AV4)
• 09 (NICAM IC)</td><td>1. Sélectionner DUAL SOUND/OPTION.
2. Presser les touches "2" ou "0" de la télécommande afin de sélectionner le nombre correspondant au paramètre à ajuster.
Afficher chaque valeur de paramètre comme montré ci-dessous.
3. Presser la touche "4" (écriture) de la télécommande pour accéder à l'EEPROM.

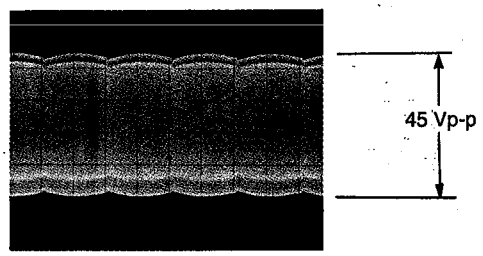
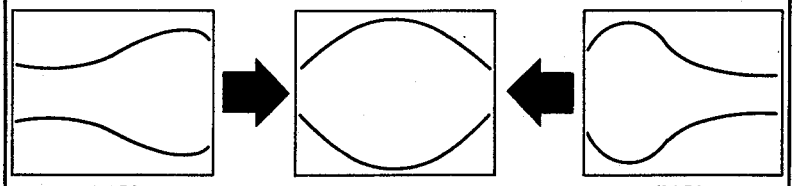
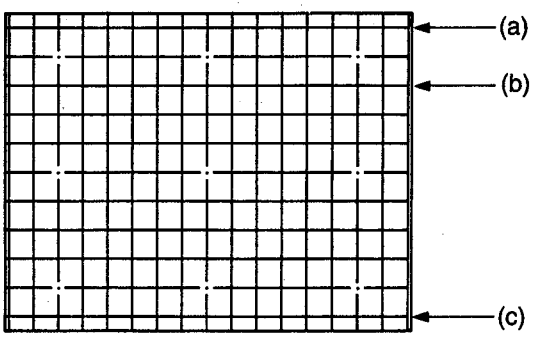
<table>
<tr><th rowspan="2">MODELE</th><th colspan="7">AJUSTEMENT DES VALEURS</th></tr>
<tr><th>03</th><th>04</th><th>05</th><th>06</th><th>07</th><th>08</th><th>09</th></tr>
<tr><td>29″</td><td>4</td><td>0</td><td>0</td><td>2</td><td>0</td><td>1</td><td>0</td></tr>
<tr><td>25″</td><td>4</td><td>0</td><td>0</td><td>2</td><td>0</td><td>1</td><td>0</td></tr>
</table>

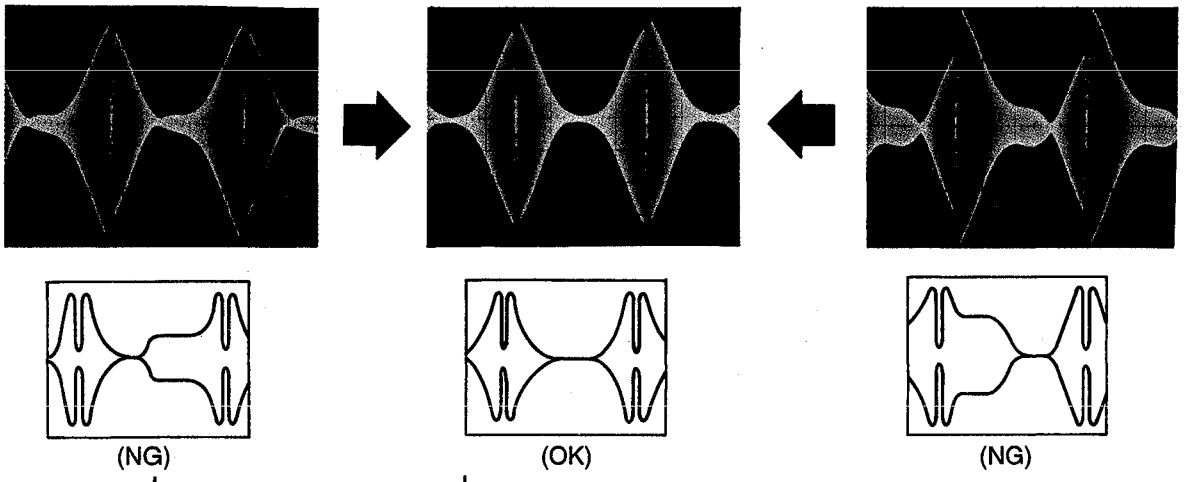
OPTION DUAL SON</td></tr>
</table>

No.	ITEM	METHODE D' AJUSTEMENT	PROCEDURE D' AJUSTEMENT
		CIRCUIT DEFLECTION	
Avant l'ajustement, afficher la valeur du paramètre "01" (modifie l'amplitude) à "-32".			
2	PAL CENTRE HORIZONTAL	• 09 (PHASE HORIZONTALE)	1. Connecter un magnétoscope en lecture d'une cassette d'alignement (MONOSCOPE PAL). 2. Sélectionner l'ajustement VCJ. 3. Ajuster le paramètre "09" avec les touches "2" ou "0" de la télécommande. 4. Ajuster chaque repère de manière à centrer l'image à l'aide des touches "5" et "7" de la télécommande.
3	PAL AMPLITUDE HORIZONTAL	• 06 (AMPLITUDE HORIZONTALE)	1. Connecter un magnétoscope en lecture d'une cassette d'alignement (MONOSCOPE PAL). 2. Sélectionner l'ajustement VCJ. 3. Ajuster le paramètre "06" avec les touches "2" ou "0" de la télécommande. 4. Ajuster l'amplitude horizontale à l'aide des touches "5" et "7" de la télécommande.
4	PAL EST/OUEST PCC	• 05 (CORRECTION DES COINS)	1. Appliquer un signal EXT. (PAL/CONVERGENCE). 2. Sélectionner l'ajustement VCJ. 3. Ajuster le paramètre "05" à l'aide des touches "2" ou "0" de la télécommande. 4. Ajuster la valeur à "-14" pour un "25" ou "–25" pour un "29" à l'aide des touches "5" ou "7" de la télécommande.
		• 03 (PARABOLE)	5. Sélectionner le paramètre "03" (PARABOLE) à l'aide des touches "2" ou "0" de la télécommande. 6. Observer les secondes lignes de chaque coté de l'écran. Ajuster si nécessaire à l'aide des touches "5" et "7" de la télécommande jusqu' à obtention d'une distortion symétrique dans le haut et dans le bas de l'écran. 

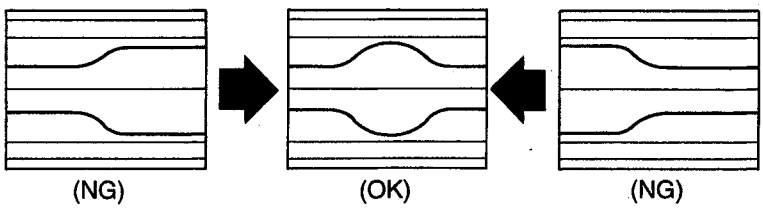
No.	ITEM	METHODE D' AJUSTEMENT	PROCEDURE D' AJUSTEMENT
		• 02 (PARABOLE)	7. Sélectionner le paramètre "02" (PARABOLE/AMP) à l'aide des touches "2" et "0" de la télécommande. 8. Aligner chaque ligne verticale à l'aide des touches "5" et "7" de télécommande. Répéter les étapes de 1 à 7 si nécessaire.  9. Connecter un magnétoscope et lire une cassette d'alignement (PAL/MONOSCOPE). 10. Vérifier l'amplitude horizontale et le centre horizontal. Si nécessaire, répéter les étapes 2 et 3.

No.	ITEM	METHODE D' AJUSTEMENT	PROCEDURE D' AJUSTEMENT
5	PAL NORD/SUD PCC (29" seulement)	• Oscilloscope en TP86 (PCB PCC) et la masse en TP88 (PCB PCC) DIV 1V TIME 100ms. SONDE (1/10e) • VR4000 (PCB PCC) • VR4002 (PCB PCC) • T4001 (PCB PCC)	1. Appliquer un signal EXT. (PAL/CONVERGENCE). 2. Presser la touche "OPTIMUM". 3. Tourner les potentiomètres suivant VR4000, VR4002 et VR4003 à fond dans le sens des aiguilles d'une montre. (Vue côté composants). 4. Ajuster T4001 pour obtenir une tension de 45V p/p.  5. Observer la ligne en haut de l'écran (a). Ajuster T4001 pour optimaliser la phase nord/sud. (voir fig. ci-dessus).  

No.	ITEM	METHODE D' AJUSTEMENT	PROCEDURE D' AJUSTEMENT
		• Oscilloscope en TP89 (PCB PCC) DIV 2V TIME 5ms. SONDE (1/10e) • VR4004 (PCB PCC)	6. Ajuster VR4004 pour que le signal BALANCE soit comme montré ci-dessous.



7. Ajuster VR4002 et VR4003 pour que les premières linges en haut (a) et en bas (c) de l'écran soient horizontales (voir fig. page 12).
8. Observer la troisième ligne (b) (voir fig. page 12) en haut de l'écran, ajuster T4002 afin d'obtenir la phase optimale comme montré sur la fig. ci-dessous.



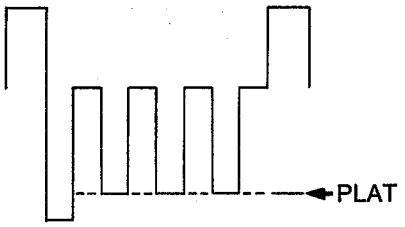
9. Ajuster VR4000 pour que la troisième ligne en haut de l'écran soit parfaitement horizontale.

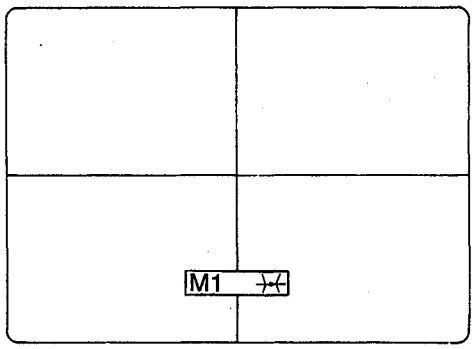
<table>
<tr><th>No.</th><th>ITEM</th><th>METHODE D' AJUSTEMENT</th><th>PROCEDURE D' AJUSTEMENT</th></tr>
<tr><td>6</td><td>PAL
AMPLITUDE
LINEARITE</td><td>• 00 (VERTICALE AMPLI)
• 04 (VERTICALE LIN)</td><td>1. Connecter un magnétoscope et lire une cassette d'alignement (PAL/MONOSCOPE).
2. Sélectionner l'ajustement VCJ.
3. Ajuster le paramètre "00" (V-AMPLITUDE) à l'aide des touches "2" ou "0" de la télécommande.
4. Positionner le centre du cercle (signal monoscope) et ajuster la géométrie de celui-ci à l'aide des touches "5" ou "7" de la télécommande.
5. Sélectionner le paramètre "4" (V-LIN) à l'aide des touches "2" ou "0" de la télécommande.
6. Egaliser le demi cercle supérieur et le demi cercle inférieur à l'aide des touches "7" et "5" de la télécommande.
7. Sélectionner le paramètre "00" (V-AMPLI) à l'aide des touches "2" ou "0" de la télécommande.
8. Positionner le centre du cercle (signal monoscope) et ajuster la géométrie de celui-ci à l'aide des touches "5" ou "7" de la télécommande.
9. Répéter les étapes ci-dessus si nécessaire.</td></tr>
<tr><td>7</td><td>PAL
VERTICALE
POSITION CENTRE</td><td>• 08
(VERTICALE POSITION)</td><td>1. Connecter un magnétoscope et lire une cassette d'alignement (PAL/MONOSCOPE).
2. Sélectionner l'ajustement VCJ.
3. Ajuster le paramètre "08" (V-POSITION) à l'aide des touches "2" ou "0" de la télécommande.
4. Positionner les repères horizontaux du monoscope à ± 3mm du centre vertical de l'écran à l'aide des touches "7" et "5" de la télécommande.</td></tr>
<tr><td>8</td><td>NTSC 60Hz
CIRCUIT
DEFLECTION</td><td>• 33 (H-PHASE)
• 31 (H-AMPLI)
• 30 (PARABOLE-AMPLI)
• 2F (V-AMPLI)
• 32 (V-POSITION)</td><td>1. Appliquer un signal EXT. (NTSC géométrie 60Hz).
2. Sélectionner l'ajustement VCJ.
3. Sélectionner successivement les paramètres à l'aide des touches "2" ou "0" de le télécommande puis ajuster les valeurs comme indiqué dans la table ci-dessous à l'aide des touches "7" ou "5" de la télécommande.
<table>
<tr><th rowspan="2">MODELE</th><th colspan="5">AJUSTEMENT DES VALEURS</th></tr>
<tr><th>33</th><th>31</th><th>30</th><th>2F</th><th>32</th></tr>
<tr><td>29″</td><td>+6</td><td>+2</td><td>0</td><td>+2</td><td>-11</td></tr>
<tr><td>25″</td><td>+2</td><td>+4</td><td>+3</td><td>+1</td><td>-11</td></tr>
</table>
</td></tr>
</table>

No.	ITEM	METHODE D' AJUSTEMENT	PROCEDURE D' AJUSTEMENT
9	BLANC	• 0A (B-AMPLI) • 0B (G-AMPLI) • 0C (R-AMPLI)	1. Connecter un magnétocope en lecture d'une cassette d'alignement (MONOSCOPE/PAL). 2. Sélectionner l'ajustement VCJ. 3. Sélectionner les paramètres "0A", "0B" et "0C".Les ajuster successivement à "0" à l'aide des touches "2" ou "0" et "7" ou "5" de la télécommande. 4. Ajuster les paramètres "0A" et "0C" afin d'obtenir un écran blanc.
10	FOCUS	• CONTROLE FOCUS (TRANSFO THT)	1. Appliquer un signal RF. 2. Ajuster le CONTROLE FOCUS afin d'obtenir la meilleure focalisation.

No.	ITEM	METHODE D' AJUSTEMENT	PROCEDURE D' AJUSTEMENT
			CIRCUIT VIDEO
			Procéder aux réglages du circuit déflection avant de commencer les réglages ci-après. Mettre l'appareil sous tension pendant au moins 20 minutes avant de procéder à ces réglages.
11	Circuits Video	• CONTROLE G2 (TRANSFO THT)	1. Connecter un magnétoscope en lecture d'une cassette d'alignement (PAL/MONOSCOPE). 2. Sélectionner l'ajustement VCJ. 3. S'assurer que le G2 +/– est positionné sur "00". Si ce n'est pas le cas, ajuster le G2 positionné sur le TRANSFO LIGNE quelque soit le paramètre sélectionné. 4. Appliquer un signal EXT. (géométrie). 5. Ajuster si nécessaire la tension G2 à "00". Appliquer à nouveau un signal monoscope et s'assurer que le G2 est à "00".
		• 0F (SATURATION COULEUR)	6. Appliquer un signal EXT. (BARRES DE COULEUR). 7. Sélectionner le paramètre "0F" (SATURATION COULEUR) à l'aide des touches "2" ou "0" de la télécommande.
		• 0E (LUMINANCE)	8. Ajuster la valeur à "-32" à l'aide "7" ou "5" de la télécommande. 9. Sélectionner le paramètre "0E" (LUMINANCE) à l'aide des touches "2" ou "0" de la télécommande. 10. S'assurer que la barre bleue ne se distingue pas. 11. Faire légèrement apparaître la barre rouge sans rendre la barre bleue visible à l'aide des touches "7" ou "5" de la télécommande.
		• Amperemetre DC le (+) en broche 1 du connecteur LA (PCB MAIN) • Le (–) en broche 4 du connecteur LA (PCB MAIN) • 0D (CONTRASTE)	12. Sélectionner la paramètre "0D" (CONTRASTE) à l'aide des touches "2" ou "0" de la télécommande. 13. Ajuster le courant de faisceau aux valeurs données dans le tableau ci-dessous à l'aide des touches "7" ou "5" de la télécommande.
			14. Si l'étape 13 rend la barre bleue lumineuse, ajuster à nouveau le paramétre "0E"(LUMINANCE) pour l'assombrir. 15. S'assurer que le G2 est toujours à "00". Si ce n'est pas le cas, répéter les étapes de 1 à 13.

	25"	29"
COURANT DE FAISCEAU	700±20μA	800±20μA

No.	ITEM	METHODE D' AJUSTEMENT	PROCEDURE D' AJUSTEMENT
12	SORTIE COULEUR	• Oscilloscope CH1 sur la base de Q662 (PCB CRT) • 0F (SATURATION COULEUR)	*Procèder à ces réglages après ajustement des circuits vidéo et blanc. 1. Appliquer un signal EXT. (BARRES DE COULEUR PAL) 2. Sélectionner l'ajustement VCJ. 3. Sélectionner le paramètre "0F" (SATURATION COULEUR) à l'aide des touches "2" ou "0" de la télécommande. 4. Ajuster le signal comme montré en fig. ci-dessous à l'aide des touches "7" ou "5" de la télécommande.  5. Après avoir réalisé les étapes ci-dessus, augmenter de 5 digites le paramètre "0F" (SATURATION COULEUR).

No.	ITEM	METHODE D' AJUSTEMENT	PROCEDURE D' AJUSTEMENT
		CIRCUIT MICRO-PROCESSEUR	
13	POSITIONNEMENT DE L'AFFICHEUR	• L701 (PCB MAIN)	1. Appliquer un signal EXT. (GEOMETRIE). 2. Presser la touche "MENU" sur la télécommande. 3. Ajuster L701 (CHARA) pour que le symbol du plateau tournant soit positionné au centre de l'écran.  INDICATEUR OPTIMUM
		CIRCUIT TEXTE	
	Mettre l'appareil sous tension au moins 5 minutes avant de commencer les ajustements.		
14	TELETEXTE FREQUENCE LIBRE	• Frequence METRE en TP1 (PCB TEXTE) • VC7701 (PCB TEXTE)	1. Ne pas appliquer un signal RF. 2. Ajuster VC7701 pour que la fréquence soit 6000.2 ± 0.2kHz.

REMPLACEMENT DU IC 702 (EEPROM)

NOTE : Lors du remplacement du IC702 (EEPROM) et que celle-ci est déjà chargée, procéder selon les étapes 2 et 3. (Ne pas tenir compte des étapes 1 et 4).

NOTE : Lors de son remplacement par une EEPROM non chargée, procéder selon les étapes 1 à 4.

1. Mettre le téléviseur hors tension. Connecter la broche 23 de IC701 à la massa à travers une résistance de 100 Ω (1/4 W)
2. Mettre le téléviseur sous tension, le chargement de IC701 est signalé par le voyant veille.
   Le temps nécessaire pour le chargement est environ de 3 secondes.
   Durant ce temps, la télécommande et le clavier ne sont pas opérationnels.
3. Presser la touche "SECTEUR" sur la télécommande. L'alimentation ne sera rétablie qu'une fois le chargement terminé.
4. Mettre le téléviseur hors tension. Oter la résistance connectée en broche 23 de IC701.

VALEUR INITIALE DE L'EEPROM

VCJ		
AJUSTEMENT N°PARAMETRE	VALEUR INITIALE	PARAMETRE
00	0	V-AMPLI
01	0	V-AMPLI
02	0	PARABOLE-AMPLI
03	0	PARABOLE-TILT
04	0	V-LIN
05	0	CORRECTION COINS
06	0	H-AMPLI
07	0	—
08	0	V-POSITION
09	0	H-PHASE
0A	0	AMPLI-BLEU
0B	0	AMPLI-VERT
0C	0	AMPLI-ROUGE
0D	0	CONTRASTE
0E	0	LUMINANCE
0F	0	SATURATION COULEUR
10	0	HUE
17	101	—
18	110	—
2F	0	V-AMPLI (NTSC)
30	0	PARABOLE AMPLI (NTSC)
31	0	H-AMPLI (NTSC)
32	0	V-POSITION (NTSC)
33	0	H-PHASE (NTSC)

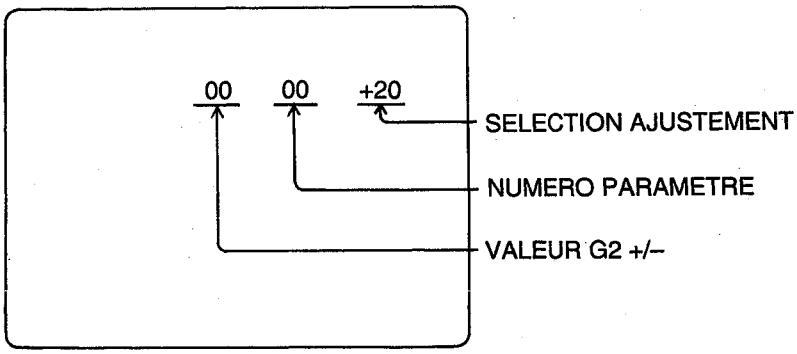
DUAL SOUND		
AJUSTEMENT N°PARAMETRE	VALEUR INITIALE	PARAMETRE
01	+32	K2
OPTION		
03	0	TUNER PACK
04	0	E11/E12
05	0	DUAL SOUND
06	0	COULEURS
07	0	TEXTE
08	0	AV4
09	0	NICAM IC

REMPLACEMENT DU TRANSFORMATEUR LIGNE

1. Appliquer un signal RF (PROGRAMME).
2. Presser le switch service (S2J1), puis la touche 9 de la télécommande dans les 5 secondes qui suivent afin de passer en mode service.
3. Presser la touche "CM" pour sélectionner l'ajustement VCJ.
4. S'assurer que le G2 soit préréglé sur "00". Si tel n'est pas le cas, l'ajuster à "00" à l'aide du potentiomètre placé sur le transformateur ligne.

   Si la valeur du G2 est de:

   "01": tourner le potentiomètre dans le sens inverse des aiguilles d'une montre.
   "10": tourner le potentiomètre dans le sens des aiguilles d'une montre.



AJUSTEMENT VCJ

PARTS LIST

MODEL : CT-25A6FM/CT-29A6FM

In order to expedite delivery of replacement part orders.

Specify : 1.Model number/Serial number

2.Part number and Description

3.Quantity

Unless full information is supplied,delay in execution of orders will result.

⚠ : Critical components

MARK	B	C	D	F	G	J	K
TOLERANCE (%)	±0.1	±0.25	±0.5	±1	±2	±5	±10

MARK	M	N	V	X	Z	P	Q
TOLERANCE (%)	±20	±30	+10 -10	+40 -20	+80 -20	+100 -0	+30 -10

MARK	B	C	D	F	G
TOLERANCE (pF)	±0.1	±0.25	±0.5	±1	±2

ABBREVIATION

[25]:CT-25A6FM

[29]:CT-29A6FM

[25]:CT-25A6FM

SYMBOL No.	PARTS No.	PARTS NAME	DESCRIPTION
		TUBES	
⚠ V 271	255P914O30	CRT ASSY	A59EAK71X11[25]
⚠ V 271	255P919O20	CRT ASSY	A68EAU27X01[29]
		INTEGRATED CIRCUITS	
IC201	272P590O10	IC	MC44000P (D20K-3)
IC202	272P124O10	IC	NJM2209S
IC251	272P027O10	IC	AN5862K
IC2J1	272P575O10	IC	CXA1114P
IC2J2	263P066O20	IC	TC4066BP
IC361	272P459O20	IC	TA8200AH V42<V1>
IC3J1	263P066O20	IC	TC4066BP
IC3100	272P752O10	IC	TDA8425
IC451	272P588O20	IC	TDA8178S
IC4000	266P546O10	IC	RC4558P[29]
IC4001	266P546O10	IC	RC4558P[29]
IC4002	263P066O20	IC	TC4066BP[29]
IC551	272P406O10	IC	TEA2031A
IC601	272P591O10	IC	MC44140
IC602	272P170O10	IC	TDA4565 CTI
IC701	263P432O20	IC	CXP80424-123S
IC702	263P434O20	IC	X24C04P
IC704	274P008O50	IC	MN1380-T
IC901	272P514O10	IC	TEA2261
IC950	272P412O10	IC	TEA5170
IC951	267P076O10	IC	SI-3120C
IC952	267P076O30	IC	SI-3050C
IC954	266P922O10	IC	µPC78M05H
IC955	266P010O20	IC	µPC574J-K
		TRANSISTORS	
Q 101	260P387O30	TRANSISTOR	2SC2236-Y
Q 102	260P543O30	TRANSISTOR	JC501-R
Q 103	260P543O30	TRANSISTOR	JC501-R
Q 104	260P543O30	TRANSISTOR	JC501-R
Q 202	260P543O30	TRANSISTOR	JC501-R
Q 203	260P635O10	TRANSISTOR	2SC3065-F,G
Q 204	260P543O30	TRANSISTOR	JC501-R
Q 205	260P543O30	TRANSISTOR	JC501-R
Q 251	260P543O30	TRANSISTOR	JC501-R
Q 252	260P543O30	TRANSISTOR	JC501-R
Q 253	260P543O30	TRANSISTOR	JC501-R
Q 254	260P543O30	TRANSISTOR	JC501-R
Q 255	260P654O30	TRANSISTOR	2SC2058S-Q
Q 2J1	260P543O30	TRANSISTOR	JC501-R
Q 2J2	260P543O30	TRANSISTOR	JC501-R
Q 2J3	260P543O30	TRANSISTOR	JC501-R
Q 2J4	260P543O30	TRANSISTOR	JC501-R
Q 2J5	260P544O40	TRANSISTOR	JA101-R
Q 2K1	260P543O30	TRANSISTOR	JC501-R
Q 301	260P387O30	TRANSISTOR	2SC2236-Y
Q 3100	260P543O30	TRANSISTOR	JC501-R
Q 3101	260P544O40	TRANSISTOR	JA101-R
Q 3102	260P544O40	TRANSISTOR	JA101-R
Q 401	260P543O30	TRANSISTOR	JC501-R
Q 402	260P428O20	TRANSISTOR	2SC2168-O,Y

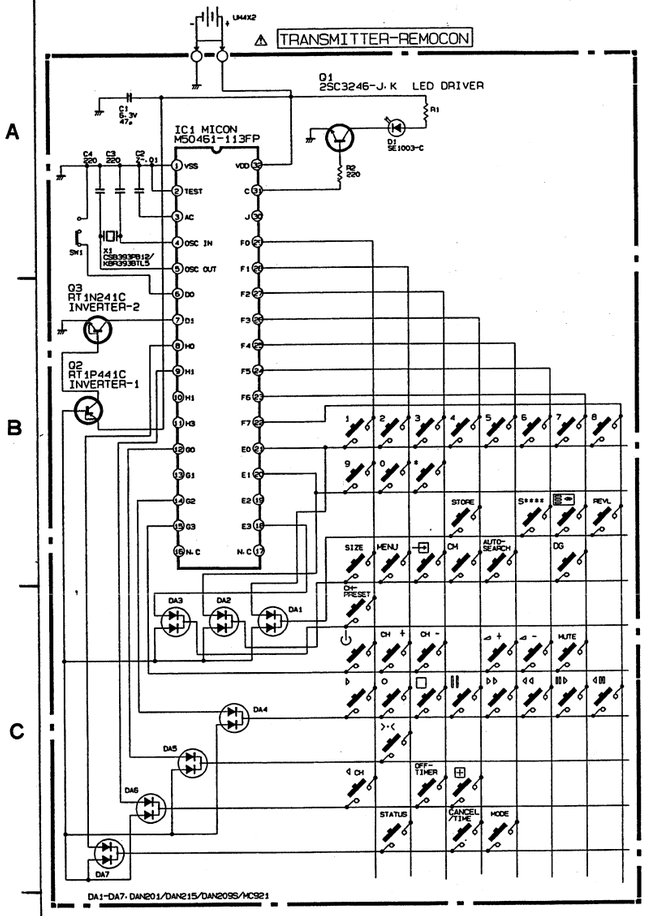
[29]:CT-29A6FM

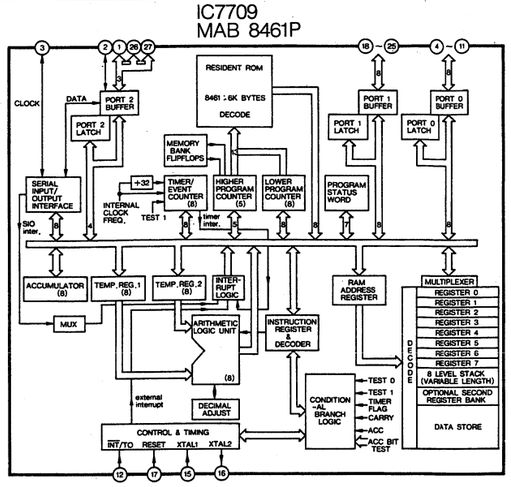
SYMBOL No.	PARTS No.	PARTS NAME	DESCRIPTION
Q 4000	260P543O30	TRANSISTOR	JC501-R[29]
Q 4001	260P543O30	TRANSISTOR	JC501-R[29]
Q 4002	260P543O30	TRANSISTOR	JC501-R[29]
Q 4003	260P544O40	TRANSISTOR	JA101-R[29]
Q 4004	260P544O40	TRANSISTOR	JA101-R[29]
Q 4005	260P427O20	TRANSISTOR	2SC1826-Y[29]
Q 4006	260P544O40	TRANSISTOR	JA101-R[29]
Q 4007	260P436O10	TRANSISTOR	2SD386A-D,E[29]
Q 4008	260P543O30	TRANSISTOR	JC501-R[29]
Q 4009	260P255O40	TRANSISTOR	2SA950-Y[29]
Q 4A00	260P543O50	TRANSISTOR	JC501-Q[29]
Q 4A01	260P543O50	TRANSISTOR	JC501-Q[29]
Q 501	260P543O30	TRANSISTOR	JC501-R
Q 551	260P422O10	TRANSISTOR	2SC2482
Q 552	260P607O10	TRANSISTOR	2SD1878[25]
Q 552	260P608O10	TRANSISTOR	2SD1879[29]
Q 553	260P543O30	TRANSISTOR	JC501-R
Q 554	260P543O30	TRANSISTOR	JC501-R
Q 651	260P425O80	TRANSISTOR	2SC688-L,M,N
Q 652	260P425O80	TRANSISTOR	2SC688-L,M,N
Q 653	260P425O80	TRANSISTOR	2SC688-L,M,N
Q 654	260P544O40	TRANSISTOR	JA101-R
Q 655	260P654O30	TRANSISTOR	2SC2058S-Q
Q 656	260P654O30	TRANSISTOR	2SC2058S-Q
Q 657	260P654O30	TRANSISTOR	2SC2058S-Q
Q 658	260P422O10	TRANSISTOR	2SC2482
Q 659	260P422O10	TRANSISTOR	2SC2482
Q 660	260P422O10	TRANSISTOR	2SC2482
Q 661	260P514O10	TRANSISTOR	BF423
Q 662	260P514O10	TRANSISTOR	BF423
Q 663	260P514O10	TRANSISTOR	BF423
Q 664	260P544O40	TRANSISTOR	JA101-R[29]
Q 665	260P543O30	TRANSISTOR	JC501-R
Q 666	260P544O40	TRANSISTOR	JA101-R
Q 6J1	260P543O30	TRANSISTOR	JC501-R
Q 702	260P543O30	TRANSISTOR	JC501-R
Q 703	260P543O30	TRANSISTOR	JC501-R
Q 704	260P543O30	TRANSISTOR	JC501-R
Q 705	260P543O30	TRANSISTOR	JC501-R
Q 706	260P635O10	TRANSISTOR	2SC3065-F,G
Q 707	260P635O10	TRANSISTOR	2SC3065-F,G
Q 708	260P543O30	TRANSISTOR	JC501-R
Q 709	260P543O30	TRANSISTOR	JC501-R
Q 710	260P543O30	TRANSISTOR	JC501-R
Q 7X1	260P544O40	TRANSISTOR	JA101-R
Q 7X2	260P544O40	TRANSISTOR	JA101-R
Q 901	260P663O10	TRANSISTOR	2SD1887
Q 902	260P543O30	TRANSISTOR	JC501-R
Q 903	260P543O30	TRANSISTOR	JC501-R
Q 951	260P255O40	TRANSISTOR	2SA950-Y
Q 952	260P325O30	TRANSISTOR	2SC2655-Y
Q 954	260P668O10	TRANSISTOR	2SB1135-R,S
		DIODES	
D 101	264P464O10	DIODE	RD10EB2
D 251	264P370O10	DIODE	1N4148

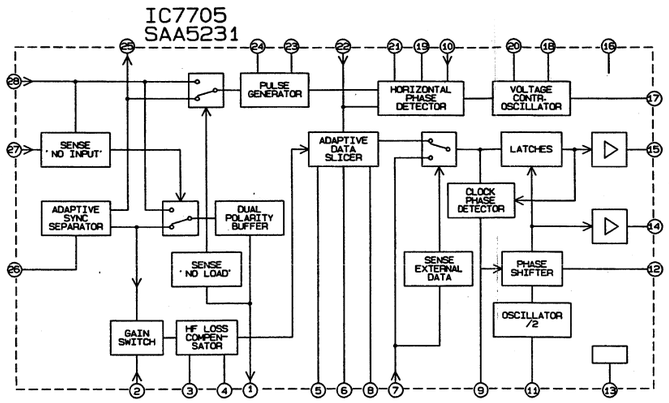
[25]:CT-25A6FM [29]:CT-29A6FM

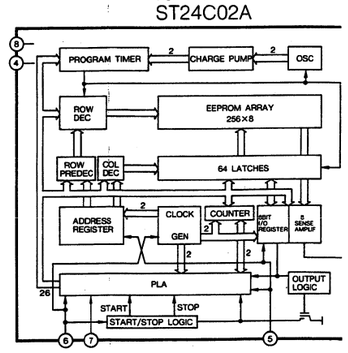
SYMBOL No.	PARTS No.	PARTS NAME	DESCRIPTION
D 253	264P370O10	DIODE	1N4148
D 254	264P370O10	DIODE	1N4148
D 2J0	264P462O90	DIODE	RD7.5EB3
D 2J1	264P462O90	DIODE	RD7.5EB3
D 2J4	264P462O90	DIODE	RD7.5EB3
D 2J5	264P462O90	DIODE	RD7.5EB3
D 2J6	264P462O90	DIODE	RD7.5EB3
D 2J7	264P462O90	DIODE	RD7.5EB3
D 2J8	264P462O90	DIODE	RD7.5EB3
D 2J9	264P462O90	DIODE	RD7.5EB3
D 2K1	264P462O90	DIODE	RD7.5EB3
D 2K2	264P462O90	DIODE	RD7.5EB3
D 2K3	264P462O90	DIODE	RD7.5EB3
D 2K5	264P370O10	DIODE	1N4148
D 2K6	264P370O10	DIODE	1N4148
D 2K7	264P370O10	DIODE	1N4148
D 2L0	264P462O90	DIODE	RD7.5EB3
D 2L1	264P462O90	DIODE	RD7.5EB3
D 301	264P464O10	DIODE	RD10EB2
D 451	264P374O20	DIODE	IN4003ID
D 4000	264P374O20	DIODE	IN4003ID[29]
D 4001	264P370O10	DIODE	1N4148[29]
D 4002	264P485O30	DIODE	RD6.8FB3[29]
D 4003	264P370O10	DIODE	1N4148[29]
D 4006	264P485O30	DIODE	RD6.8FB3[29]
D 4007	264P370O10	DIODE	1N4148[29]
D 4009	264P370O10	DIODE	1N4148[29]
D 4010	264P470O80	DIODE	RD33EB4[29]
D 551	264P371O10	DIODE	BYD33G
D 554	264P375O20	DIODE	BY228 FORMING
D 555	264P378O10	DIODE	BYW96E
D 556	264P371O10	DIODE	BYD33G
D 557	264P460O60	DIODE	RD5.1EB1
D 558	264P370O10	DIODE	1N4148
D 559	264P370O10	DIODE	1N4148
D 560	264P370O10	DIODE	1N4148
D 562	264P371O10	DIODE	BYD33G
D 563	264P371O10	DIODE	BYD33G
D 564	264P464O50	DIODE	RD11EB1
D 565	264P462O90	DIODE	RD7.5EB3
D 566	264P370O10	DIODE	1N4148
D 601	264P370O10	DIODE	1N4148
D 651	264P370O10	DIODE	1N4148
D 652	264P370O10	DIODE	1N4148
D 653	264P370O10	DIODE	1N4148
D 654	264P371O10	DIODE	BYD33G
D 655	264P374O20	DIODE	IN4003ID
D 656	264P374O20	DIODE	IN4003ID
D 657	264P374O20	DIODE	IN4003ID
D 658	264P370O10	DIODE	1N4148[29]
D 659	264P370O10	DIODE	1N4148[29]
D 660	264P370O10	DIODE	1N4148[29]
D 6J1	264P462O90	DIODE	RD7.5EB3
D 6J2	264P462O90	DIODE	RD7.5EB3
D 702	264P461O40	DIODE	RD5.6EB2
D 703	264P370O10	DIODE	1N4148
D 7X1	264P584O20	LIGHT EMITTING DIODE	SML1216W-C,D
D 7713	264P370O10	DIODE	1N4148
D 7714	264P370O10	DIODE	1N4148
D 7715	264P370O10	DIODE	1N4148
D 901	264P376O10	DIODE	BYW56
D 902	264P376O10	DIODE	BYW56
D 903	264P376O10	DIODE	BYW56
D 904	264P376O10	DIODE	BYW56
D 905	264P371O10	DIODE	BYD33G
D 906	264P372O10	DIODE	BYV96E
D 907	264P481O50	DIODE	RD3.0FB1
D 908	264P481O50	DIODE	RD3.0FB1
D 909	264P458O90	DIODE	RD4.3EB2
D 910	264P370O10	DIODE	1N4148
D 911	264P488O80	DIODE	RD15FB3
D 943	264P374O20	DIODE	IN4003ID
D 951	264P358O70	DIODE	RU 4AM
D 952	264P358O70	DIODE	RU 4AM
D 953	264P358O70	DIODE	RU 4AM
D 954	264P358O70	DIODE	RU 4AM
D 955	264P358O90	DIODE	RU 4YX
D 957	264P358O90	DIODE	RU 4YX
D 958	264P370O10	DIODE	1N4148
D 959	264P370O10	DIODE	1N4148
D 960	264P370O10	DIODE	1N4148
D 961	264P370O10	DIODE	1N4148
D 962	264P370O10	DIODE	1N4148
D 964	264P370O10	DIODE	1N4148
		OTHER SEMICONDUCTORS	
RP901	265P047O50	POSITIVE THERMISTOR	PTH-BG180M290
		FILTERS	
CF701	299P118O40	CERAMIC RESONATOR	CST4.00MGW
		COILS	
⚠	409B041O80	DEGAUSSING COIL	[25]
⚠	409P564O30	DEGAUSSING COIL	[29]
L 101	321C031O90	RF COIL	33µH-K
L 201	325C162O30	PEAKING COIL	68µH-K
L 202	325C120O90	PEAKING COIL	4.7µH-K
L 2J0	325C120O10	PEAKING COIL	1.0µH-M
L 2J1	325C120O10	PEAKING COIL	1.0µH-M
L 2J2	325C120O10	PEAKING COIL	1.0µH-M
L 3J0	325C120O70	PEAKING COIL	3.3µH-K
L 3J1	325C120O70	PEAKING COIL	3.3µH-K
L 3J2	325C120O70	PEAKING COIL	3.3µH-K
L 3J3	325C120O70	PEAKING COIL	3.3µH-K
L 3J4	325C120O70	PEAKING COIL	3.3µH-K
L 3J5	325C120O70	PEAKING COIL	3.3µH-K
L 3J6	325C120O70	PEAKING COIL	3.3µH-K
L 3J7	325C120O70	PEAKING COIL	3.3µH-K
L 3J8	325C120O70	PEAKING COIL	3.3µH-K
L 3J9	325C120O70	PEAKING COIL	3.3µH-K
L 3Y1	325C121O30	PEAKING COIL	10µH-K
L 3Y2	325C121O30	PEAKING COIL	10µH-K

SCHEMATIC DIAGRAM MODELS:CT-25A6FI

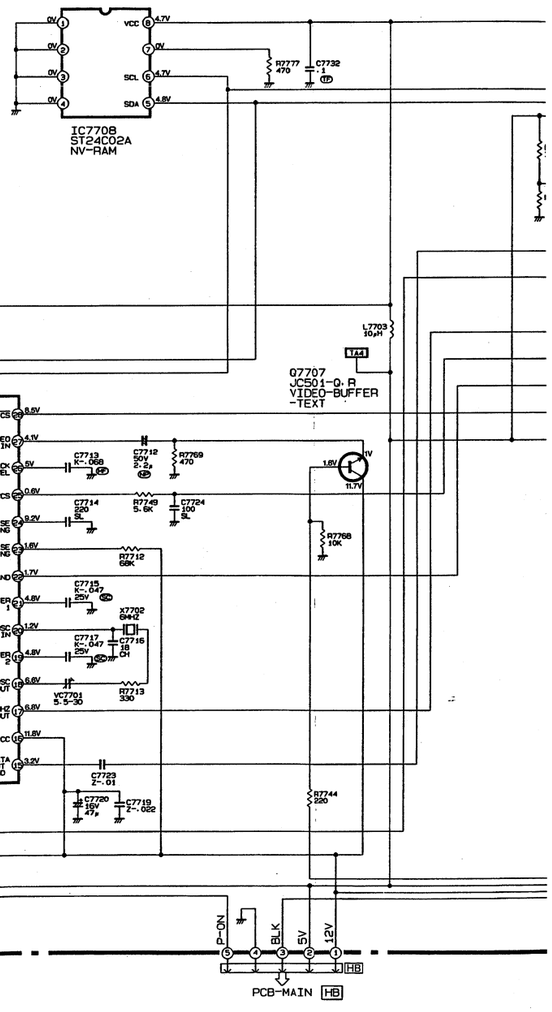


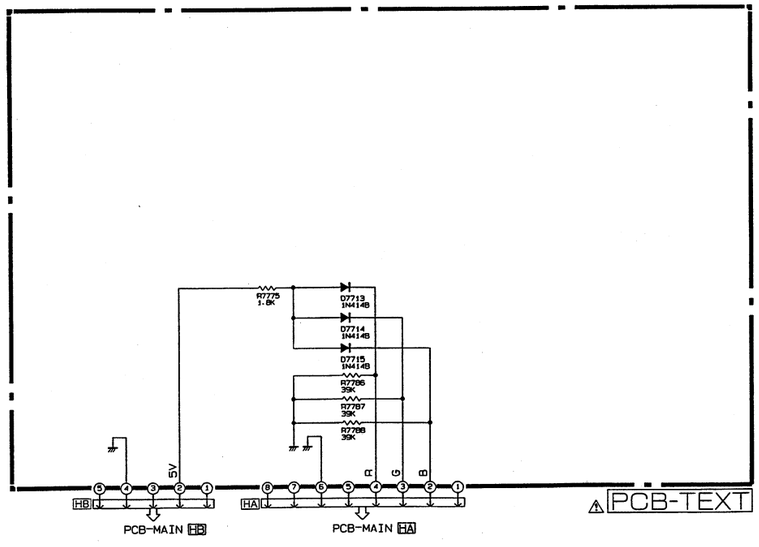




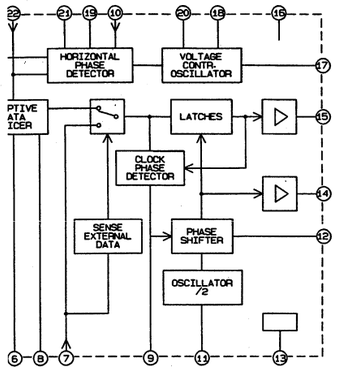


PCB-TEXT (OPTION:TA-92A4)





IAGRAM MODELS:CT-25A6FM/CT-29A6FM



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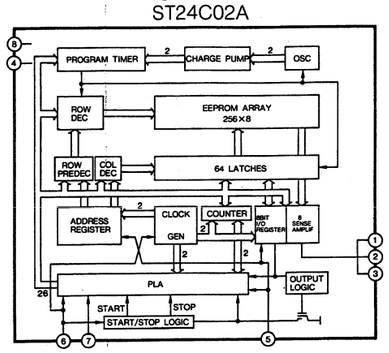
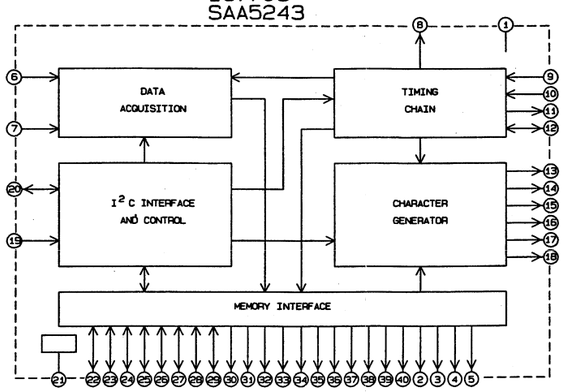


IC7706
SAA5243



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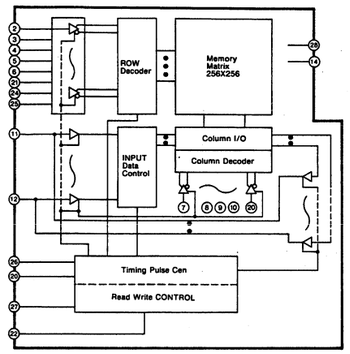
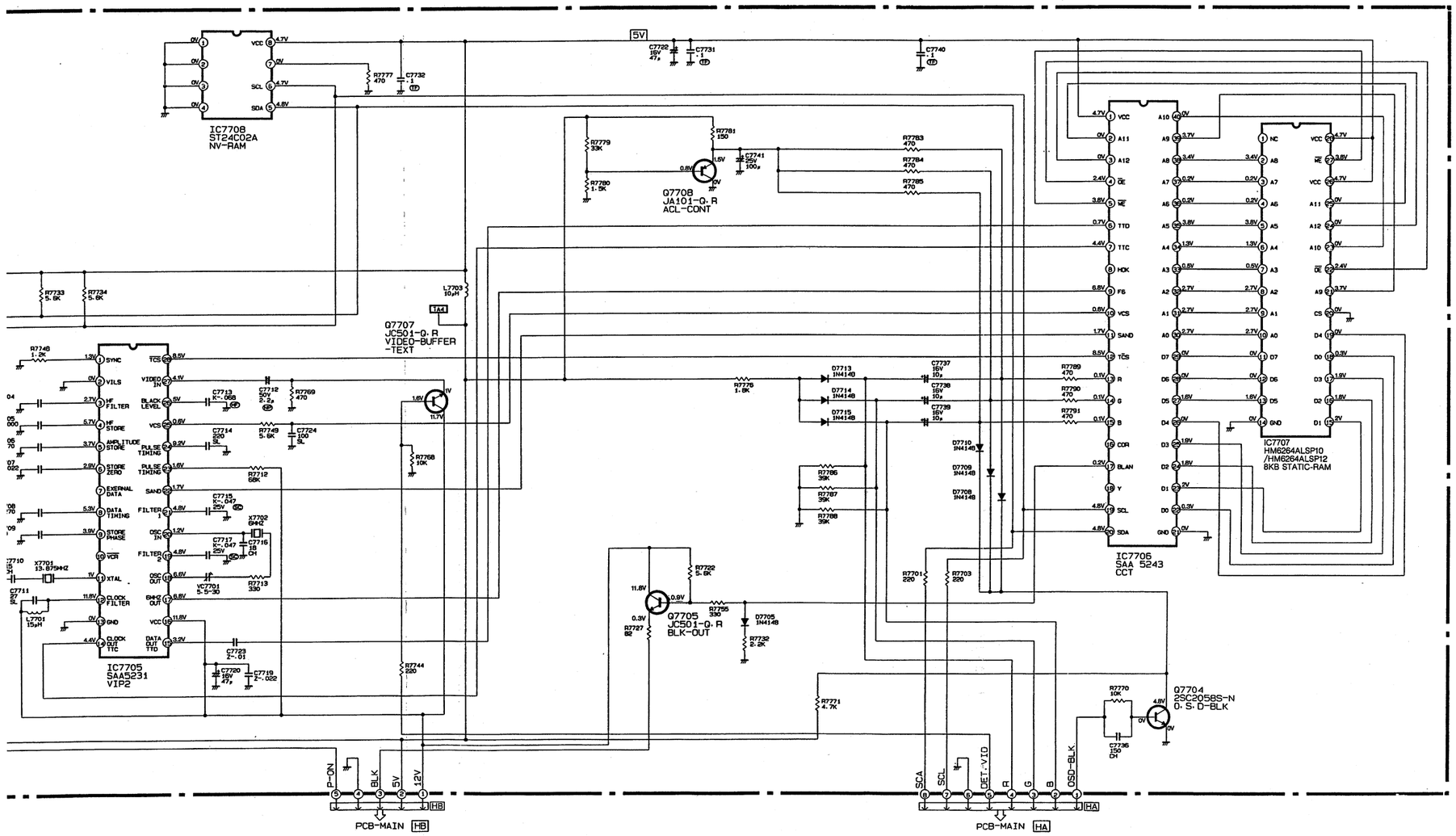




SERVICING PRECAUTION

SYMBOLS INDICATE COMPONENTS HAVING SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY AND PERFORMANCE. THERFORE REPLACEMENT OF ANY SAFETY PARTS SHOULD BE IDENTICAL IN VALUE AND CHARACTERISTICS. FOR ACCURACY OF THE REPLACEMENT REFER TO THE PARTS LIST OF SERVICE MANUAL.
DON'T DEGRADE THE SAFETY OF THE RECEIVERS THROUGH IMPROPER SERVICING.

• NOTE

1. DC voltages were measured from points indicated to the circuit ground with a high-Z voltmeter.
2. Waveforms were taken with standard colour bar signal.
3. TP6A, etc. show Test Points.
4. CAPACITORS

Value	Not indicated	PF, for numbers more than 1 µF, for numbers less than 1
Dielectric Strength	Not indicated :50V	
Tolerance	Not indicated =±10%	No Tolerance is indicated for electrolytic capacitors and ±20%
	G=±2% P=+100% Q=+30% C=±0.25PF J=±5% −0% −10% D=±0.5PF K=±10% Z=+80% T=+200% F=±1PF M=±20% −20% −0% G=±2PF	
Sort	I Parts except for chips	Not indicated : Ceramic capacitor (MP) : Polyester capacitor (PP) : Polypropylene film capacitor (ALM) : Aluminus electrolytic capacitor (TF) : Twin film capacitor (SC) : Semiconductor ceramic capacitor (MP) : Metalized paper (MPP) : Metalized plastic film capacitor (MMF) : Metalized polyester capacitor (MF.PP) : Polyester polypropylence film capacitor (PS) : Styrol capacitor (TAN)or(TANT) : Tantalum capacitor : Electrolytic capacitor (BP)or(NP) : Non polarized electrolytic capacitor
	II Chips	Not indicated : Ceramic capacitor chip : Electrolytic capacitor (BP)or(NP) : Non polarized electrolytic capacitor chip
Characteristic (only ceramic capacitor)	Not indicated : F or B(high dielectric percentage) CH,SL,etc. : Temperature compensating types	

5. Resistors

Value	Not indicated = Ω K = kΩ(1000Ω) M = MΩ(1000kΩ)	
Wattage	Parts except for chips	Not indicated = 1/4W or 1/6W
	Chips	Not indicated = 1/10W
Tolerance	Not indicated =±5% D=±0.5% J=±5% F=±1% K=±10%	
Short	I Parts except for chips	Not indicated : Carbon resistor (S) : Fixed composition resistor (MB) : Metal oxide film resistor(type B) (CE) : Cemented resister (W) : Wire wound resister (M) : Metal film resister (MPC) : Metal plate cement resister (ML) : Metal liner resister
	II Chip	Not indicated : Chip resistor

6. This is a basic schematic diagram. Some sets may be subject to modification according to engineering improvement.

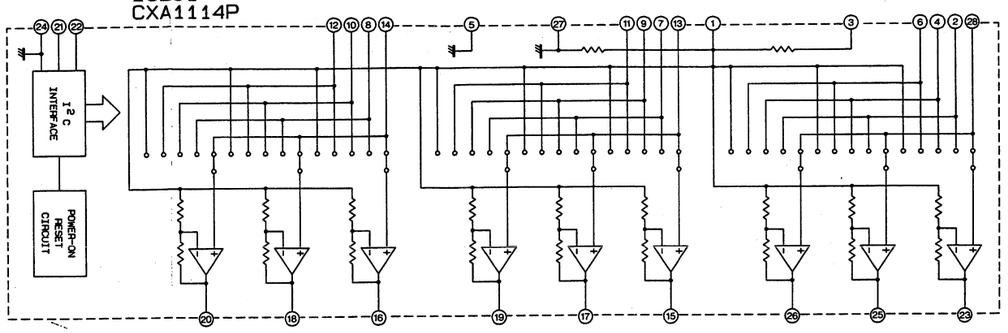
SPECIFIC SYMBOL

Zener Diode	Crystal unit
Varicap	Air Gap
Posistor	Part(resistor) attached on the copper-foil side of PCB
Thermistor	Ceramic filter
Fusible Resistor	

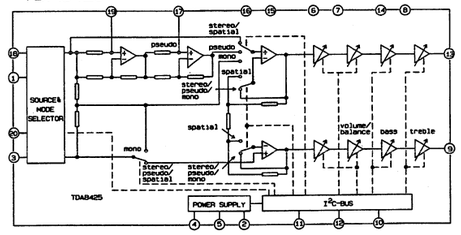
CT-25A6FM
CT-29A6FM

①

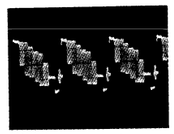
IC2J1
CXA1114P



IC3100
TDA8425



PCB-AV



①1.9Vp-p(H)

AV1

AV2

AV3

IC3J1
MC14066BCP
AUDIO-SW

IC2J2
MC14066BCP
Y/C-SW

Q2J3
JC501-Q.R
VIDEO-OUTPUT
-BUFFER-1

Q2J5
JA101-Q.R
BLK-BUFFER-1

Q2K1
JC501-Q.R
VIDEO-BUFFER

Q6J1
JC501-Q.R
S-CHROMA-BUFFER

Q2J2
JC501-Q.R
Y-SW-2

Q2J1
JC501-Q.R
Y-SW-1

Q2J4
JC501-Q.R
VIDEO-OUTPUT
-BUFFER-2

IC2J1
CXA1114P
AV-SW

COMP VIDEO

BLK +5V R G B GND AV2 AV1 → PCB-MAIN CC

SW VID ACK DET VID BREQ SW C → PCB-MAIN CB

DETL DETR LF RF YF CF F/B GND +9V SDA SCL SWR SWL → PCB-MAIN CA

SCL SDA ACK BREQ → HH

PCB-MAIN EE

PCB-MAIN ED

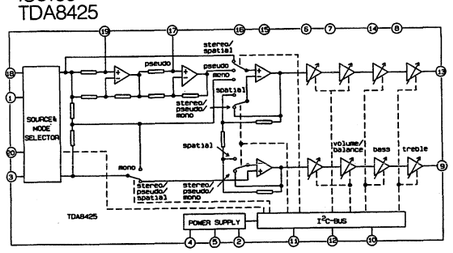
PCB-MAIN EG

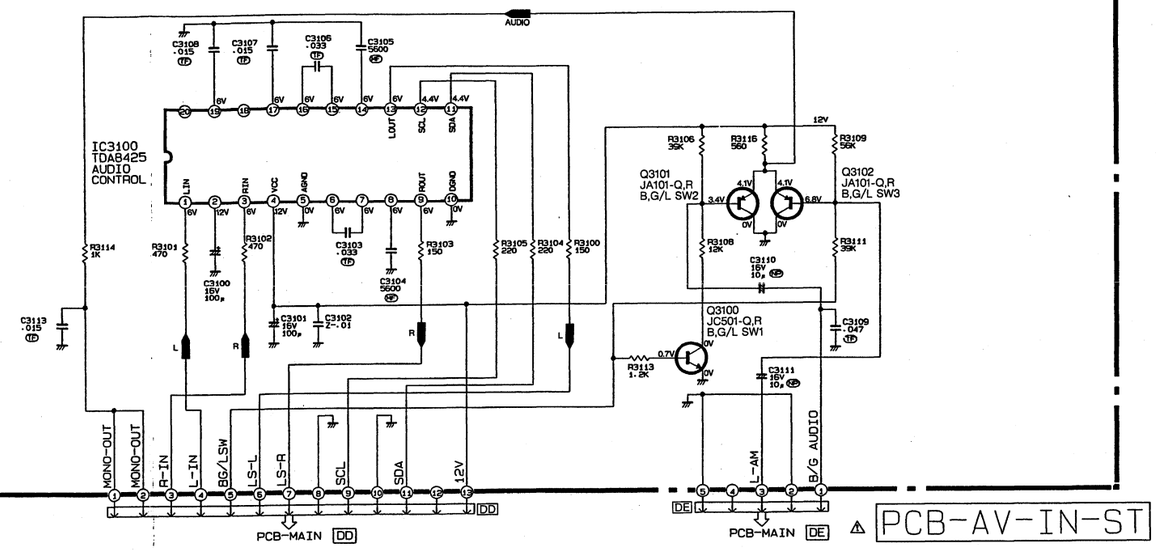
PCB-MAIN JG

CT-25A6FM
CT-29A6FM

②

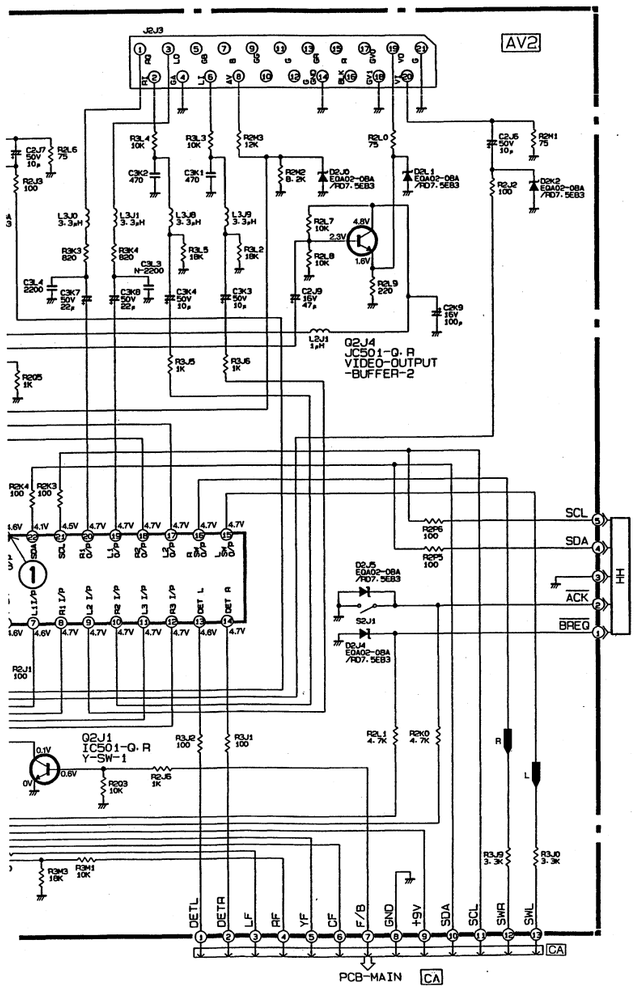
IC3100
TDA8425

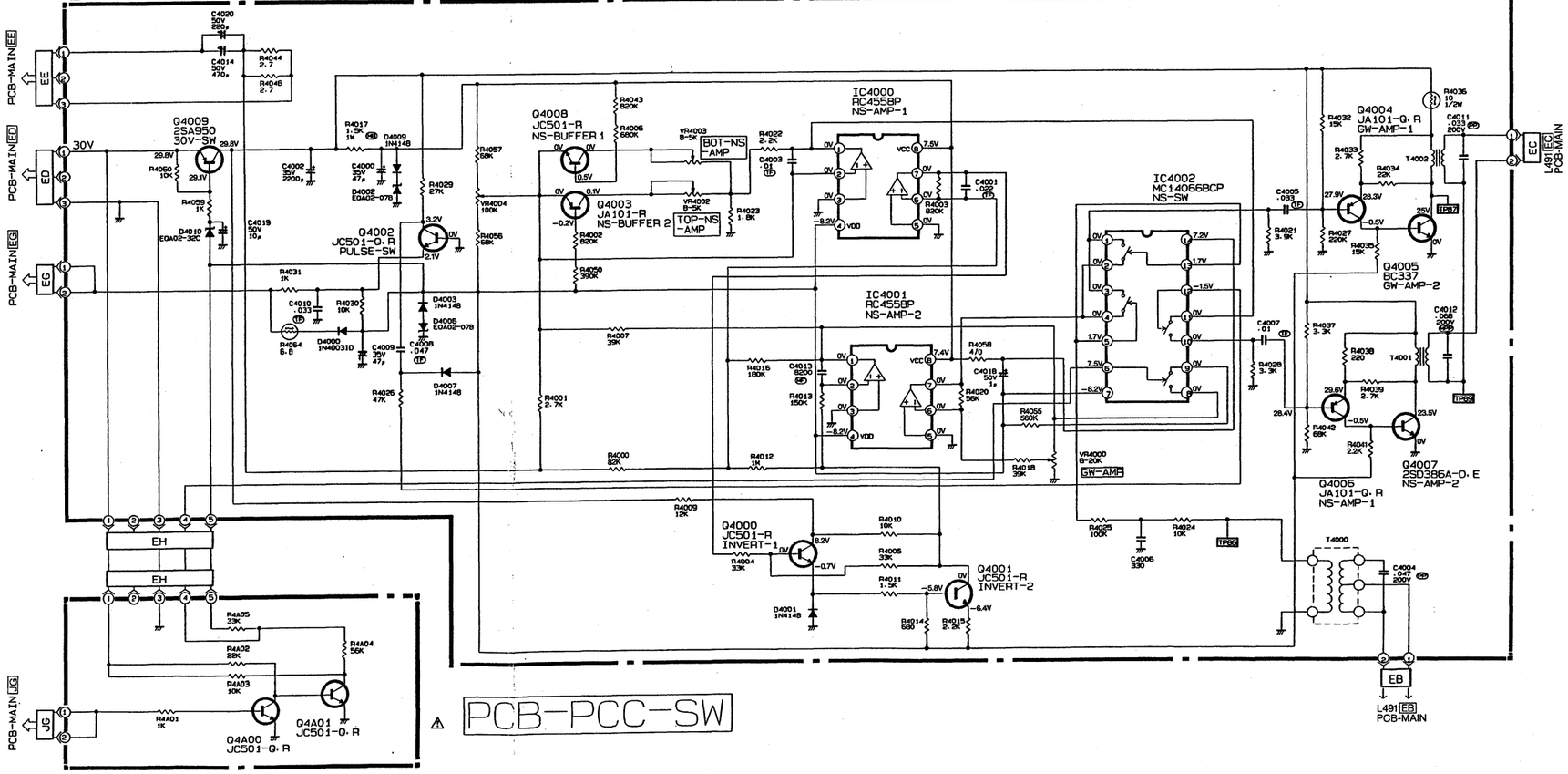




⚠ PCB-AV-IN-ST

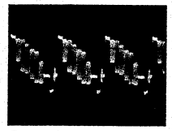
⚠ PCB-PCC USED FOR CT-29A6FM

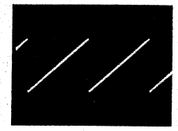


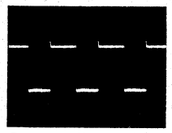


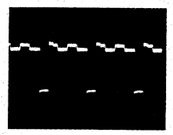
⚠ PCB-PCC-SW

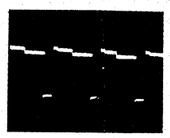
CHASSIS WAVEFORMS


②2.0Vp-p(H)


③1.8Vp-p(V)

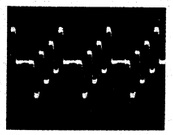

④0.7Vp-p(H)


⑤2.3Vp-p(H)


⑥2.2Vp-p(H)

⑦2.3Vp-p(H)

⑧0.7Vp-p(H)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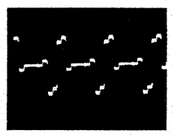
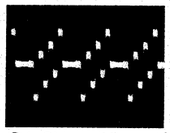
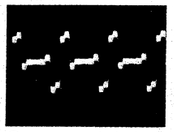

⑩0.8Vp-p(H)

⑪0.8Vp-p(H)


⑫1.0Vp-p(H)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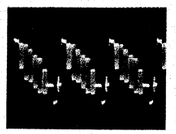
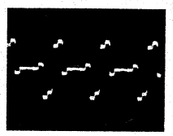

⑭0.9Vp-p(H)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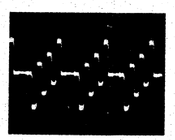
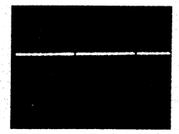
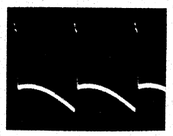
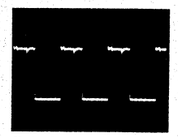

⑯0.8Vp-p(H)

⑰0.8Vp-p(H)


⑱0.5Vp-p(V)


⑲60.0Vp-p(V)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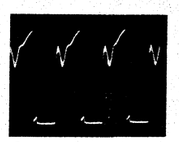
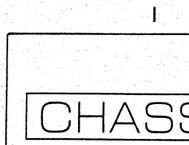

㉑124.0Vp-p(H)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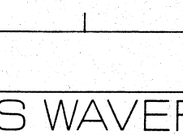
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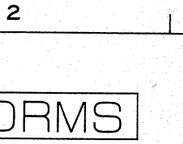
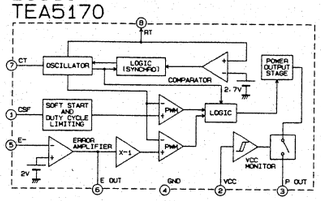

㉔140.0Vp-p(H)

IC BLOCK DIAGRAMS

IC950
TEA5170



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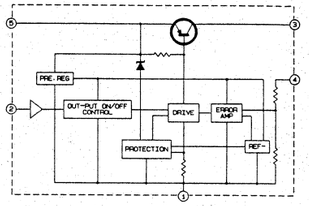
SI-3120C



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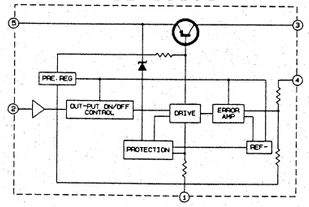
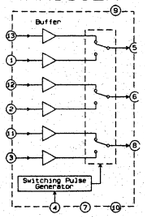
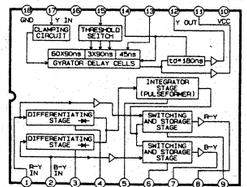
SI-3050C



IC251
AN5862K



IC602
TDA4565



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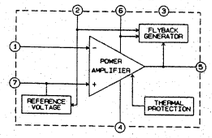
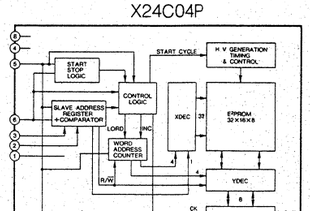
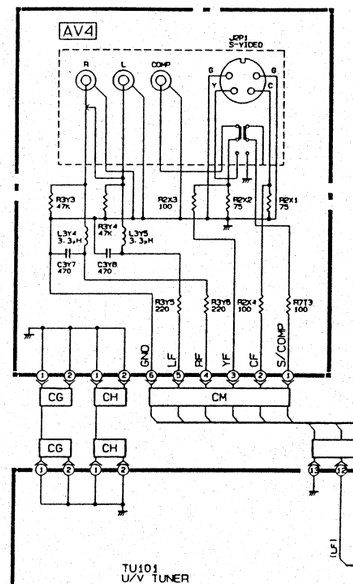
TDA8178S



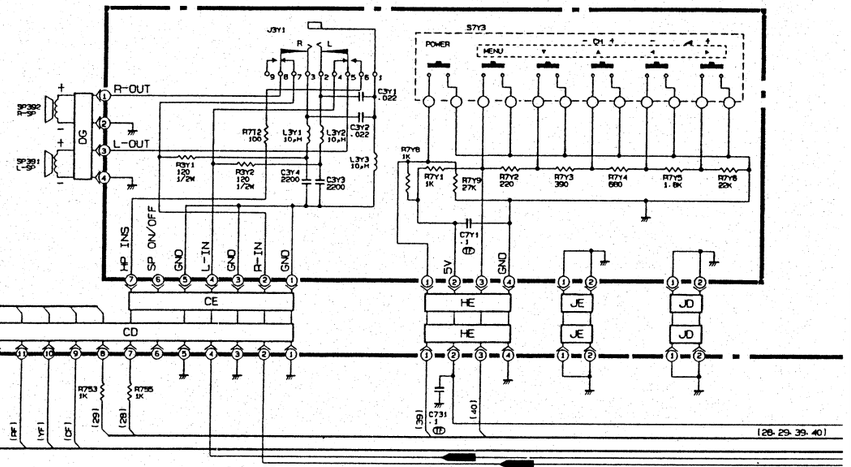
IC702
X24C04P

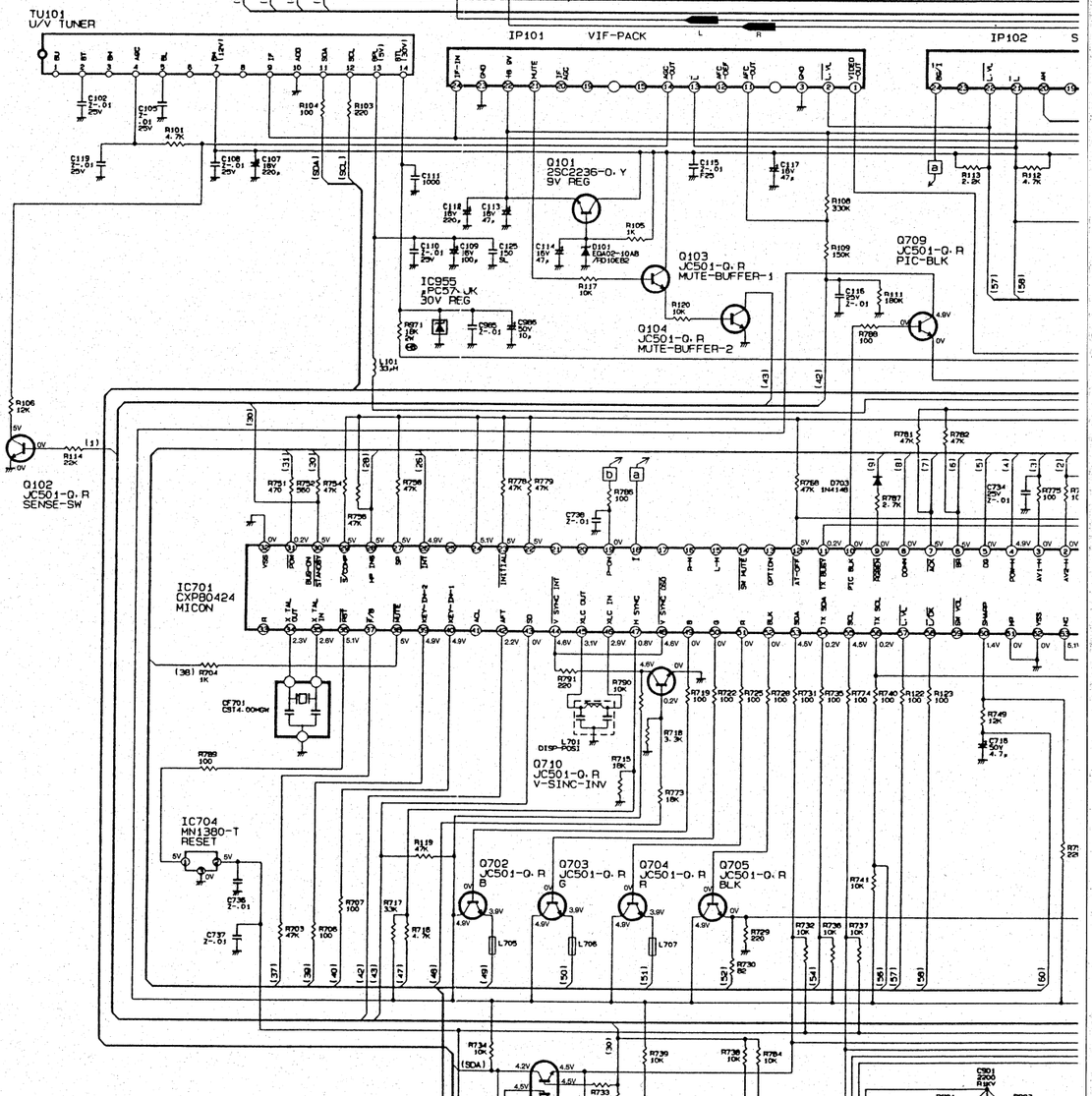


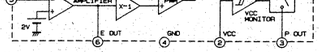
⚠ PCB-AV4

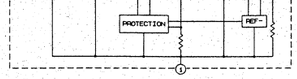


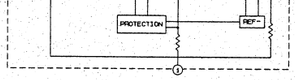
⚠ PCB-CONTROL

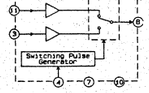




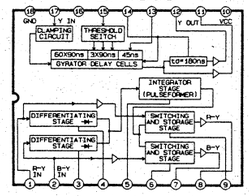




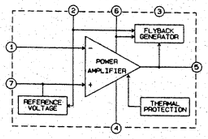




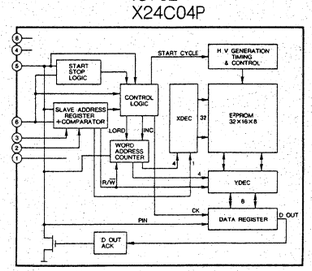
IC602 TDA4565



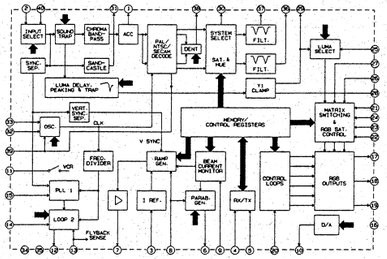
IC451 TDA8178S



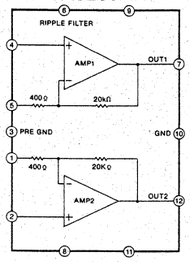
IC702 X24C04P



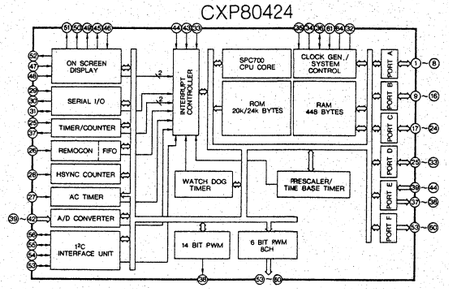
IC201 MC44000



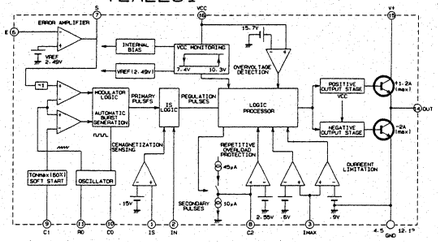
IC361 TA8200AH



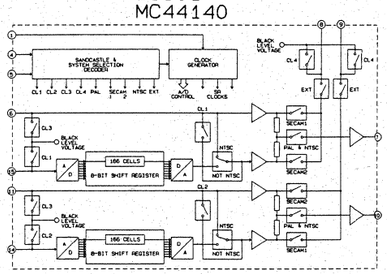
IC701 CXP80424

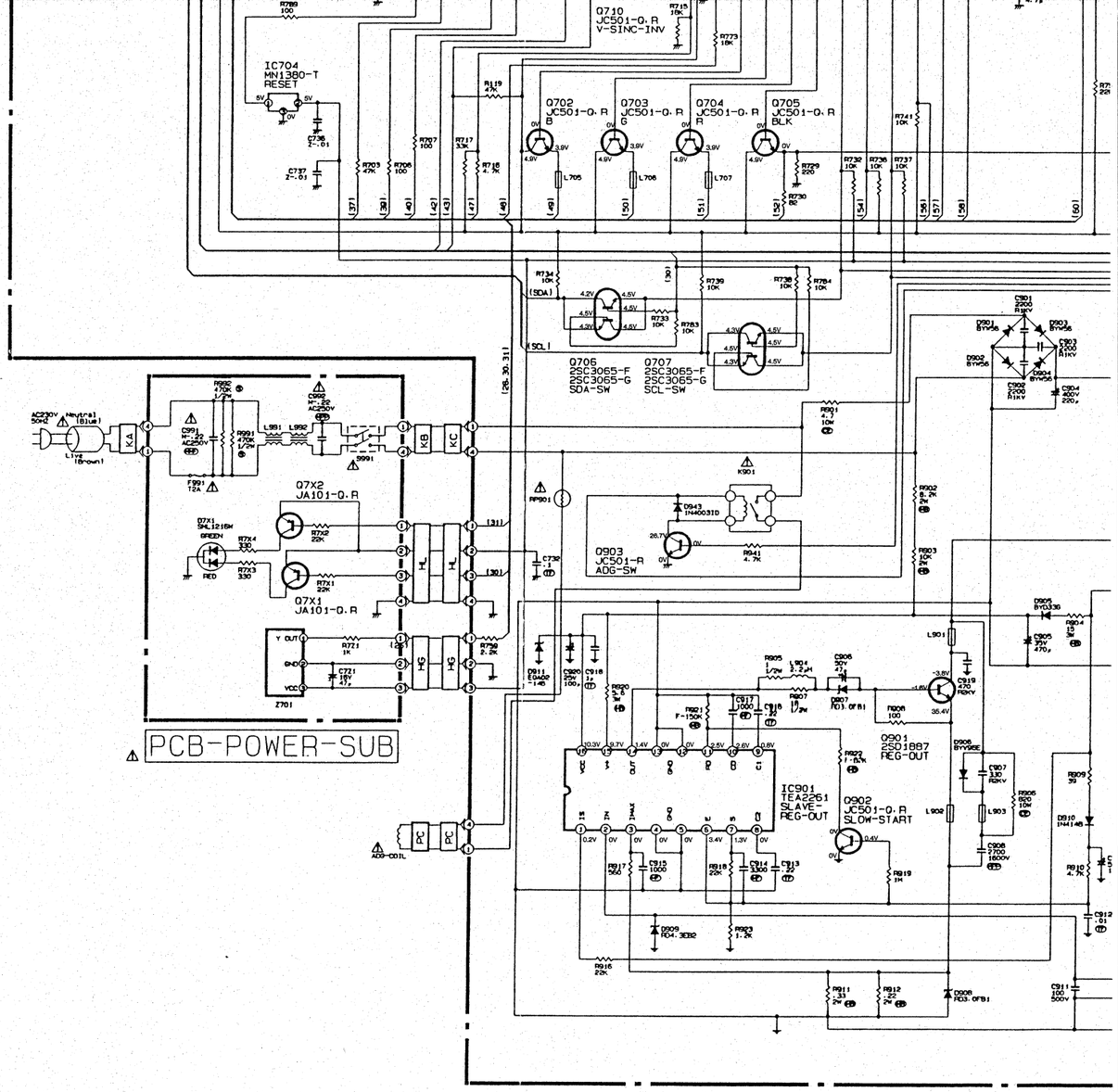


IC901 TEA2261



IC601 MC44140





PCB-AV4

PCB-CONTROL

PCB-AV-IN-ST

AV4

CD01 S-VIDEO

CG CH CM CE CD HE JE JD KD KE DE DD

TU101 U/V TUNER

IP101 V1F-PACK

IP102 SIF-PACK

IC361 TA8200AH-V1 AUDIO-AMP

IC202 NJM2209S SHARPNESS

IC601 MC44140 DELAY LINE

IC201 MC44000 VCJ

IC551 TEA2031A E/W-OUT

IC701 CXP80424 MICON

IC702 X24C04P E²PROM

IC954 μPC78M05 5V REG

IC704 MN1380-T RESET

IC955 PC57-JK 30V REG

IC251 AN5862K

Buffer

Switching Pulse Generator

Q101 2SC2236-O, Y 9V REG

Q102 JC501-O, R SENSE-SW

Q103 JC501-O, R MUTE-BUFFER-1

Q104 JC501-O, R MUTE-BUFFER-2

Q702 JC501-O, R B

Q703 JC501-O, R G

Q704 JC501-O, R R

Q705 JC501-O, R BLK

Q708 JC501-O, R DOWN DET

Q709 JC501-O, R PIC-BLK

Q710 JC501-O, R V-SINC-INV

Q553 JC501-O, R POWER-OFF -SW-1

Q554 JC501-O, R POWER-OFF -SW-2

D101 EQA02-10A8 /MTD10E82

D702 EQA02-06A /MTD5.6E82

X701 CST4.00MGW

L701 DISP-FOIL

5V 9V 12V

AUDIO

COMP VIDEO

H.V GENERATION TIMING & CONTROL

EPROM 32K×16×8

YDEC

PCB-POWER-SUB

PCB-MAIN USED FC

10 11 12 13 14 15 16 17

PCB-AV-IN-ST

PCB-AV

PCB-TEXT

PCB-CRT

IC351 TA8200AH-V1 AUDIO-AMP

IC202 NJM2209S SHARPNESS

IC601 MC44140 DELAY LINE

IC602 TDA4565 CTI

IC201 MC44000 VCJ

IC702 X24C04P E²PROM

IC954 μPC78M05 5V REG

IC251 AN5862K RGB-SW

Q0202 JC501-0,R VIDEO DRIVE

Q0203 2SCJ065 F,G ACL AMP

Q0204 JC501-0,R PAL/SECAM SW1

Q0205 JC501-0,R PAL/SECAM SW2

Q0253 JC501-0,R B-ACL

Q0251 JC501-0,R G-ACL

Q0252 JC501-0,R R-ACL

Q0254 JC501-0,R ACL DRIVE

Q0501 JC501-A H-DRIVE-OUT

Q0301 2SC2236-O,Y AV-REG

Q0255 2SC2058S-O OSD PRIORITY SW

Q0651 2SC2688-L,M R-OUT-1

Q0652 2SC2688-L,M B-OUT-1

Q0658 2SC2482 R-OUT-2

Q0659 2SC2482 B-OUT-2

Q0661 BF423 R-FDBK

Q0662 BF423 B-FDBK

Q0655 2SC2058S-O R-AMP

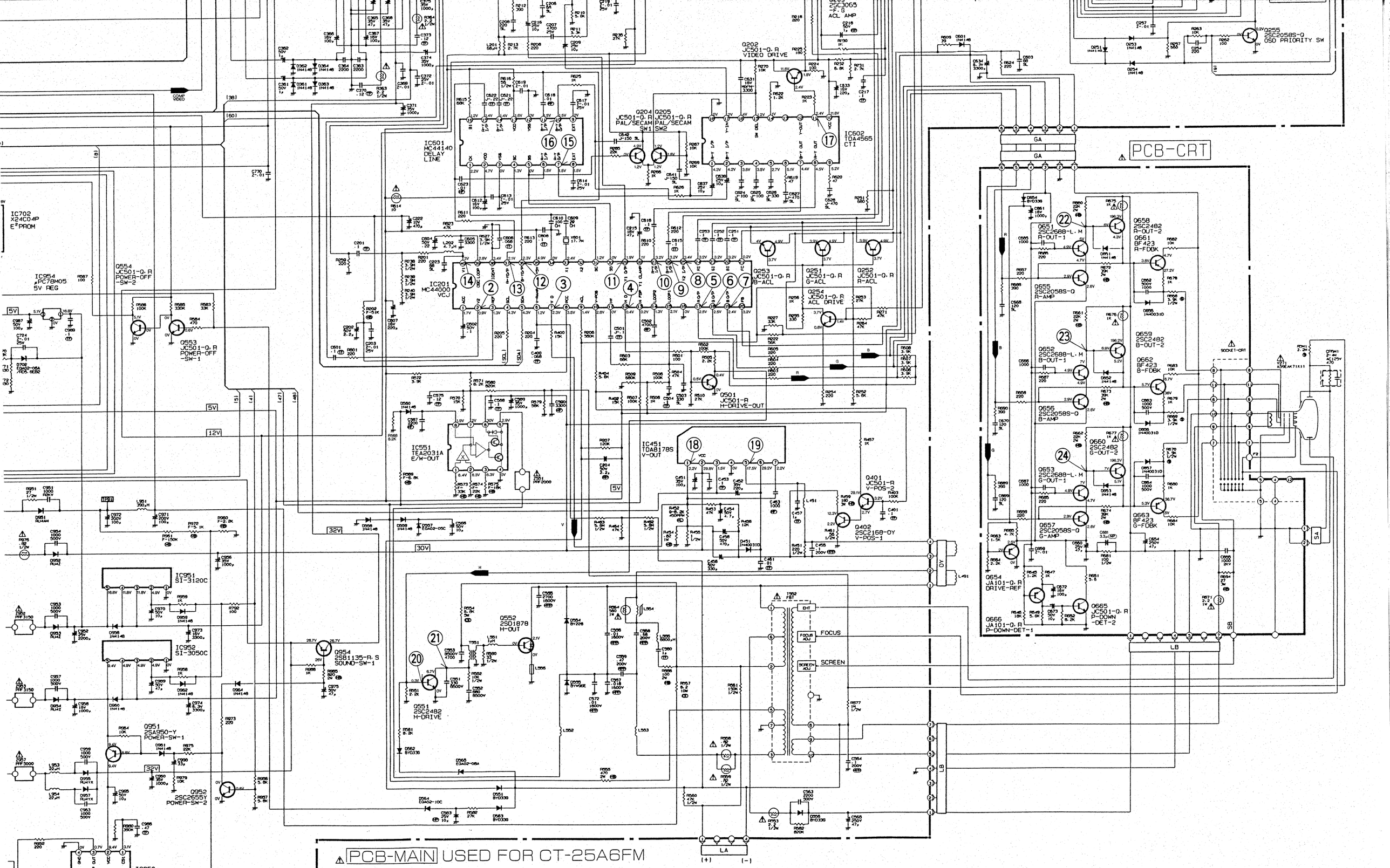
Q0656 2SC2058S-O B-AMP

Q0554 JC501-0,R POWER-OFF -SW-2

Q0553 JC501-0,R POWER-OFF -SW-1

SOCKET-CRT

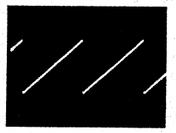
CRT

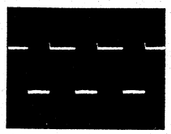


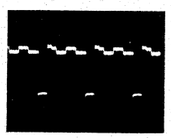
⚠ PCB-MAIN USED FOR CT-25A6FM

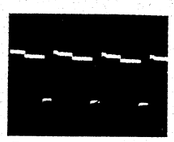
CHASSIS WAVEFORMS

②2.0Vp-p(H)

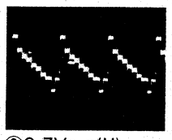

③1.8Vp-p(V)

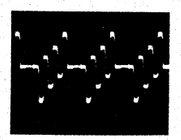

④0.7Vp-p(H)

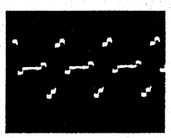

⑤2.3Vp-p(H)

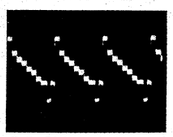

⑥2.2Vp-p(H)

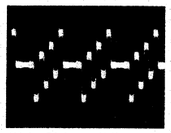
⑦2.3Vp-p(H)


⑧0.7Vp-p(H)


⑨0.9Vp-p(H)


⑩0.8Vp-p(H)


⑪0.8Vp-p(H)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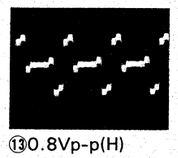
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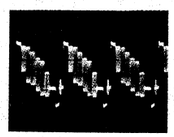
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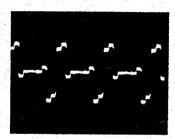
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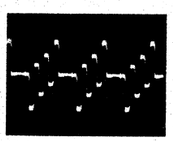
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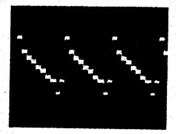
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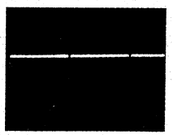
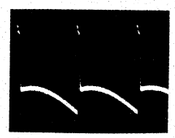

⑱0.5Vp-p(V)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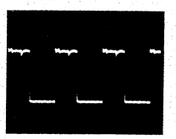
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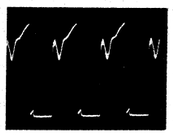
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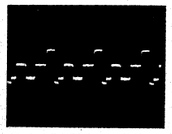
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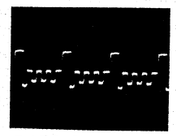
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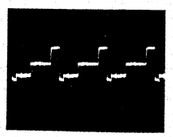
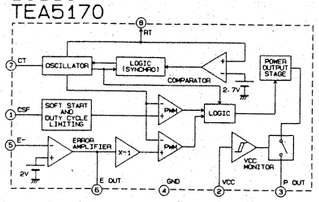
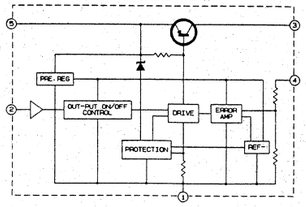

㉔140.0Vp-p(H)

IC BLOCK DIAGRAMS

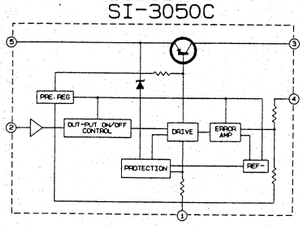
IC950
TEA5170



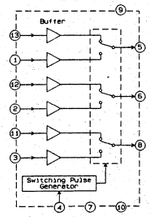
IC951
SI-3120C



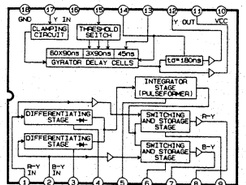
IC952
SI-3050C



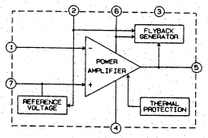
IC251
AN5862K



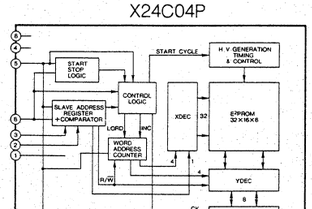
IC602
TDA4565



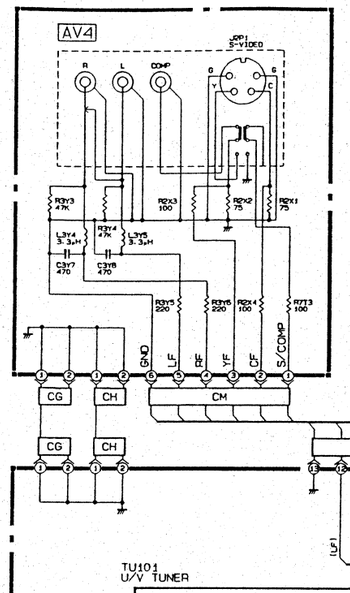
IC451
TDA8178S



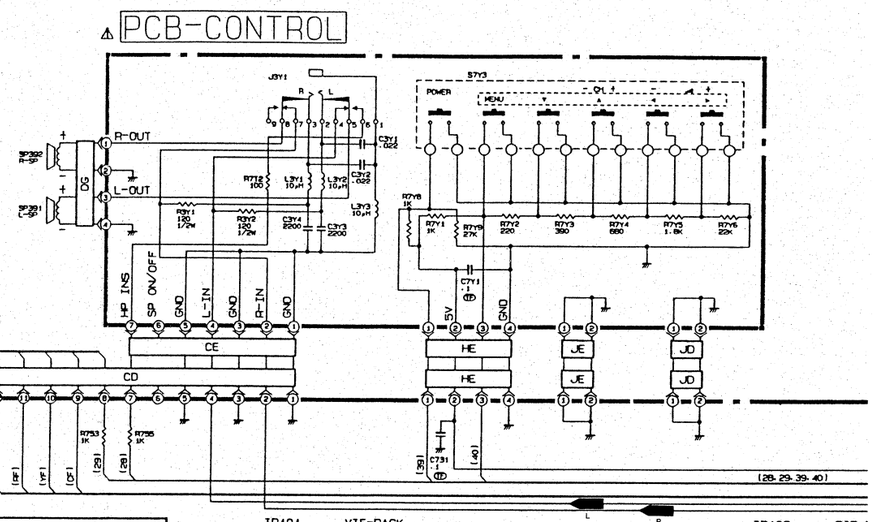
IC702
X24C04P

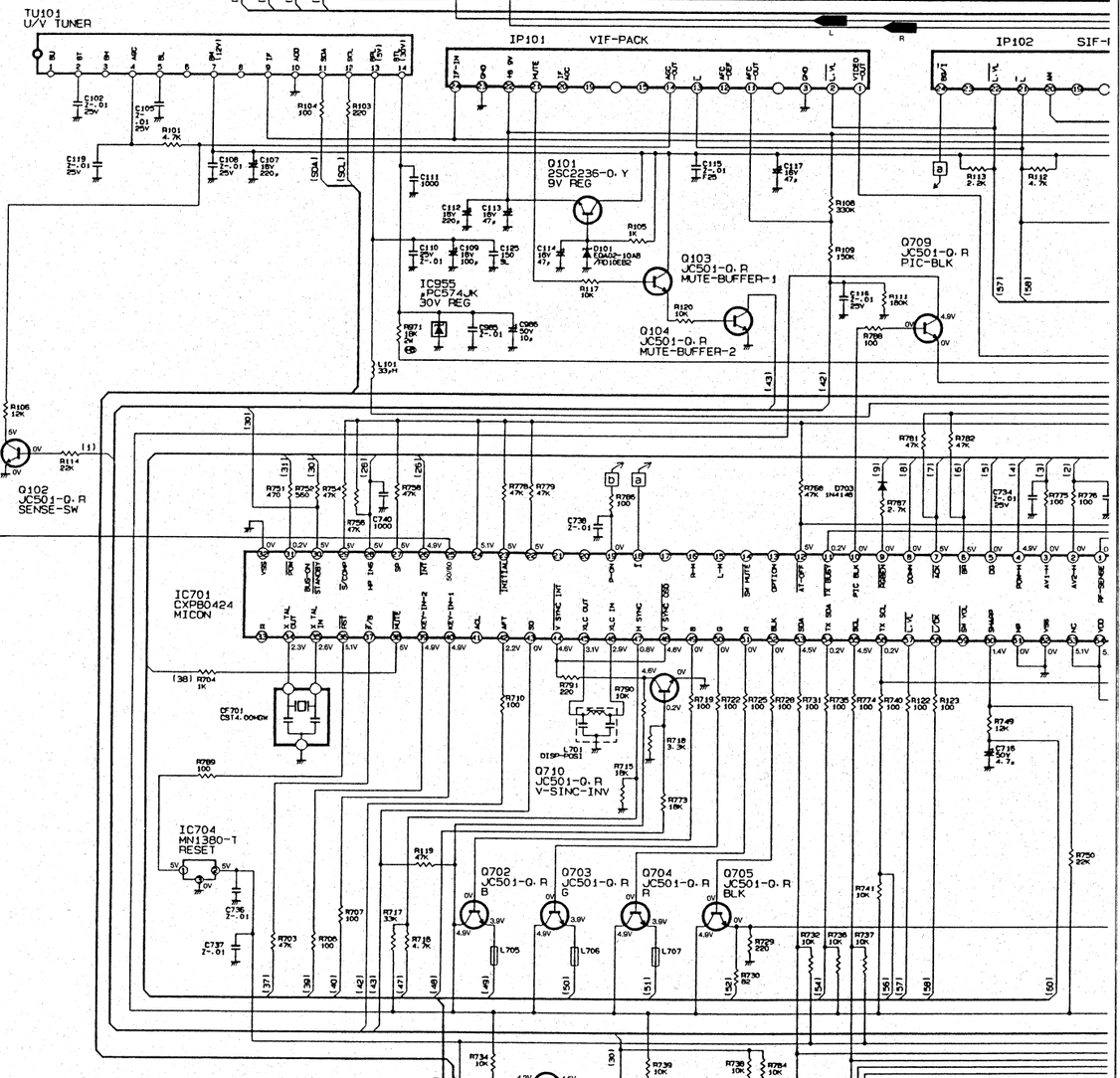


⚠ PCB-AV4



⚠ PCB-CONTROL





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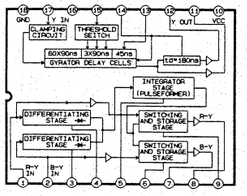

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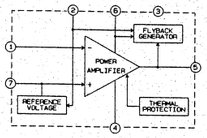

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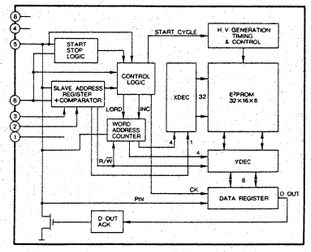
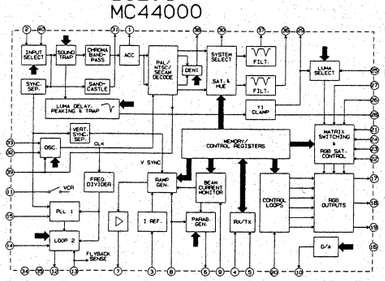
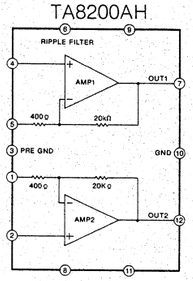


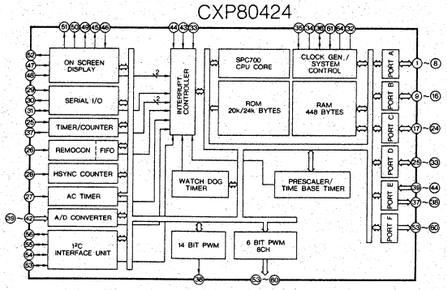
IC201
MC44000



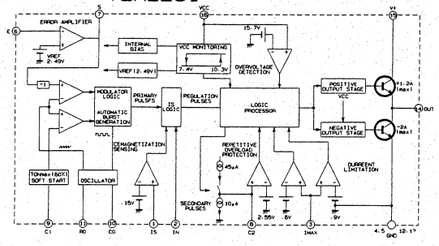
IC361
TA8200AH



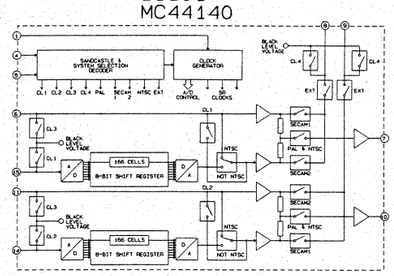
IC701
CXP80424



IC901
TEA2261

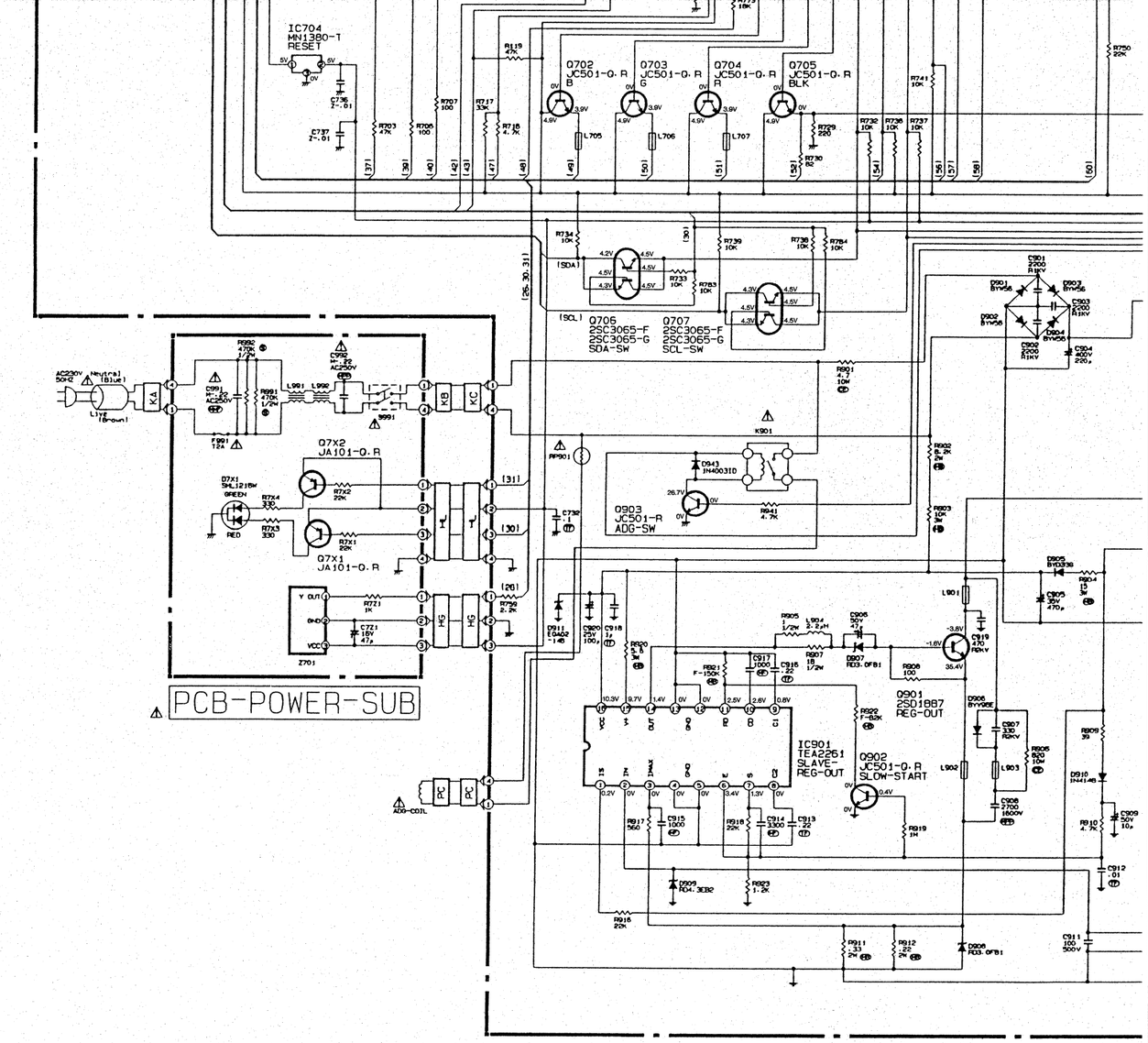


IC601
MC44140



CT-25A6FM
CT-29A6FM

④



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⑤2.2Vp-p(H)

⑩0.8Vp-p(H)

⑥0.9Vp-p(H)

㉑124.0Vp-p(H)

PCB-AV4

PCB-CONTROL

PCB-AV-IN-ST

AV4

S-VIDEO

R-OUT

L-OUT

HP INS SP ON/OFF GND L-IN GND R-IN GND

POWER MENU

GND LF RF YF CF S/COMP

CG CH CM CE CD HE JE JD

5V GND

L-AM B/G AUDIO 12V NC SDA SCL LS-R LS-L B/G L SW L-IN R-IN MONO-OUT MONO-OUT

DE DD KD

TU101
U/V TUNER

IP101 VIF-PACK

IP102 SIF-PACK

AUDIO

IC361
TA8200AH-V1 AUDIO-AMP

Q101
2SC2236-O.Y
9V REG

Q103
JC501-O.R
MUTE-BUFFER-1

Q104
JC501-O.R
MUTE-BUFFER-2

IC955
PC574JK
30V REG

Q709
JC501-O.R
PIC-BLK

Q102
JC501-O.R
SENSE-SW

PCB-PCC-SW

IC701
CXP80424
MICON

IC702
X24C04P
E²PROM

IC954
μPC78M05
5V REG

Q554
JC501-O.R
POWER-OFF
-SW-2

Q553
JC501-O.R
POWER-OFF
-SW-1

Q708
JC501-O.R
DOWN DET

IC704
MN1380-T
RESET

Q702
JC501-O.R
B

Q703
JC501-O.R
G

Q704
JC501-O.R
R

Q705
JC501-O.R
BLK

Q710
JC501-O.R
V-SINC-INV

IC601
MC44140
DELAY
LINE

IC201
MC44000
VCJ

IC551
TEA2031A
E/W-OUT

IC251
AN5862K

Buffer

Switching Pulse Generator

IC702
X24C04P

START CYCLE

H V GENERATION TIMING & CONTROL

CONTROL LOGIC

XDEC

EPROM 32×16×8

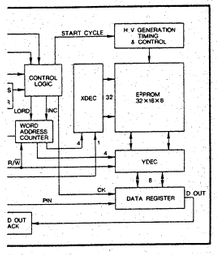
WORD ADDRESS COUNTER

YDEC

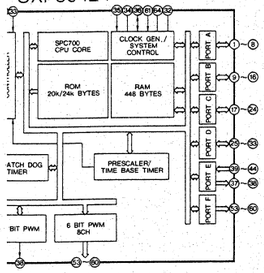
DATA REGISTER

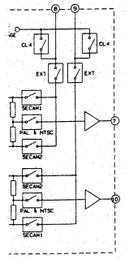
D OUT

IC702
X24C04P



IC701
CXP80424





IC704
MN1380-T
RESET

IC901
TEA2261
SLAVE-
REG-OUT

IC951
SI-3120C

IC952
SI-3050C

IC950
TEA5170
MASTER-REG-OUT

IC551
TEA2031A
E/W-OUT

IC201
MC44000
VCJ

Q710
JC501-Q.R
V-SINC-INV

Q708
JC501-Q.R
DOWN DET

Q553
JC501-Q.R
POWER-OFF
-SW-1

Q702
JC501-Q.R
B

Q703
JC501-Q.R
G

Q704
JC501-Q.R
R

Q705
JC501-Q.R
BLK

Q706
2SC3065-F
2SC3065-G
SDA-SW

Q707
2SC3065-F
2SC3065-G
SCL-SW

Q903
JC501-R
ADG-SW

Q902
JC501-Q.R
SLOW-START

Q901
2SD1887
REG-OUT

Q951
2SA950-Y
POWER-SW-1

Q952
2SC2655Y
POWER-SW-2

Q954
2SB1135-R,S
SOUND-SW-1

Q551
2SC2482
H-DRIVE

Q7X2
JA101-Q.R

Q7X1
JA101-Q.R

D7X1
SHL1218W
GREEN
RED

D943
1N4003TD

D901
BY256

D902
BY256

D903
BY256

D904
BY256

D905
BY330

D906
BY396E

D907
RD3.0FB1

D908
RD3.0FB1

D909
RD4.3EB2

D910
1N4148

D911
EGA02-14S

D912
EDA02-05C

D913
EDA02-05C

D914
EDA02-10C

D950
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PCB-AV-IN-ST

PCB-AV

PCB-TEXT

PCB-CRT

IC361 TA8200AH-V1 AUDIO-AMP

IC202 NJM2209S SHARPNESS

IC601 MC44140 DELAY LINE

IC201 MC44000 VCJ

IC602 TDA4565 CTI

IC251 AN5862K RGB-SW

IC954 PC78M05 5V REG

Q202 JC501-Q, R VIDEO DRIVE

Q203 2SC3065 H.G ACL AMP

Q204 JC501-Q, R PAL/SECAM SW1

Q205 JC501-Q, R PAL/SECAM SW2

Q253 JC501-Q, R B-ACL

Q251 JC501-Q, R G-ACL

Q252 JC501-Q, R R-ACL

Q254 JC501-Q, R ACL DRIVE

Q501 JC501-R H-DRIVE-OUT

Q301 2SC2236-O, Y AV-REG

Q255 2SC2058S-O OSD PRIORITY SW

Q658 2SC2482 R-OUT-2

Q651 2SC2688-L, M R-OUT-1

Q661 BF423 R-FDBK

Q655 2SC2058S-O R-AMP

Q659 2SC2482 B-OUT-2

Q652 2SC2688-L, M B-OUT-1

Q662 BF423 B-FDBK

Q654 JA101-Q, R WBL-BLKING

Q553 JC501-Q, R POWER-OFF -SW-1

Q554 JC501-Q, R POWER-OFF -SW-2

IC702 4C04P PROM

D301 EQ402-10AB

D658 2SC2482 R-OUT-2

D659 2SC2482 B-OUT-2

D662 BF423 B-FDBK

D655 2SC2058S-O R-AMP

D654 JA101-Q, R WBL-BLKING

D651 2SC2688-L, M R-OUT-1

D652 2SC2688-L, M B-OUT-1

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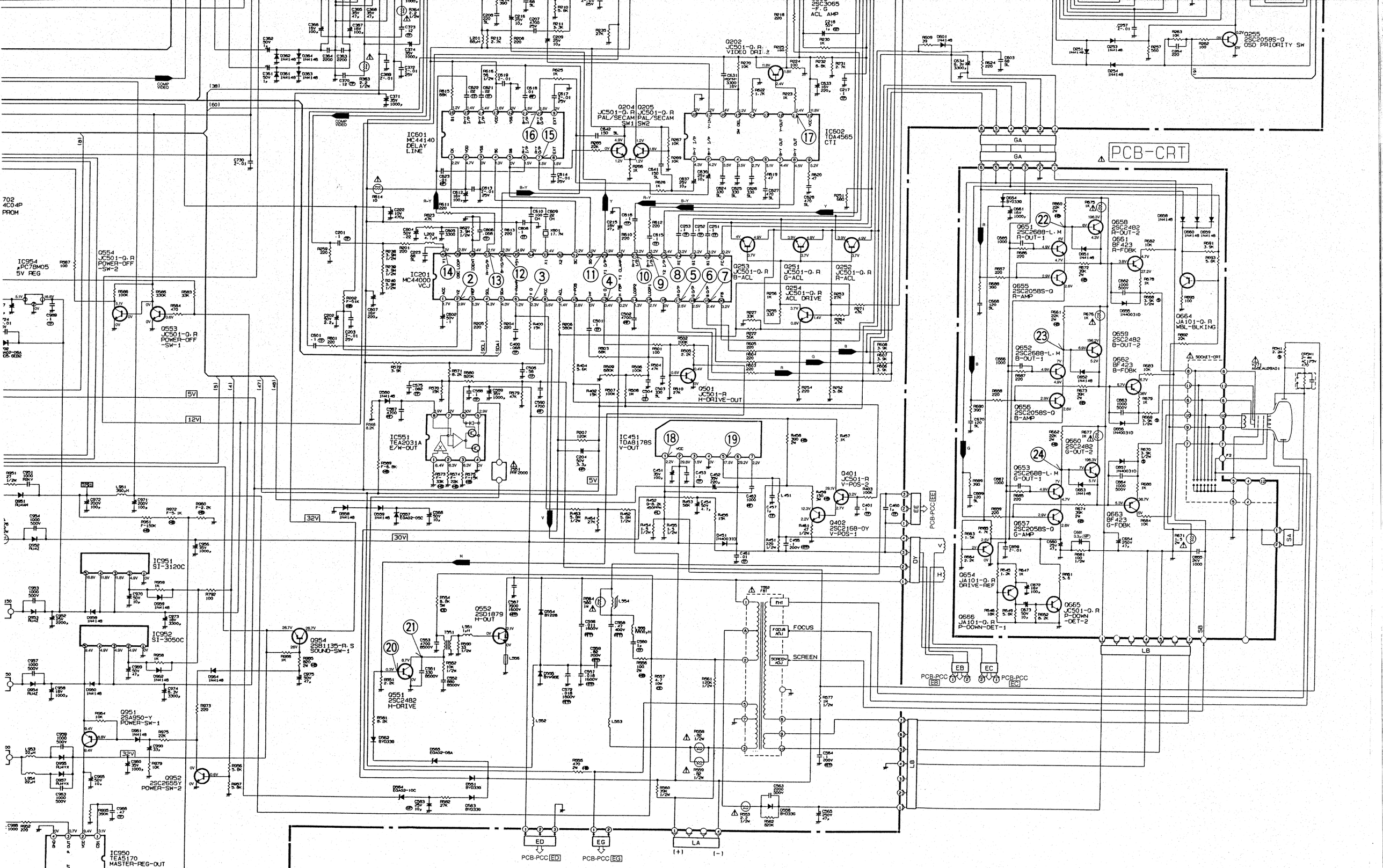

⚠ PCB-MAIN USED FOR CT-29A6FM

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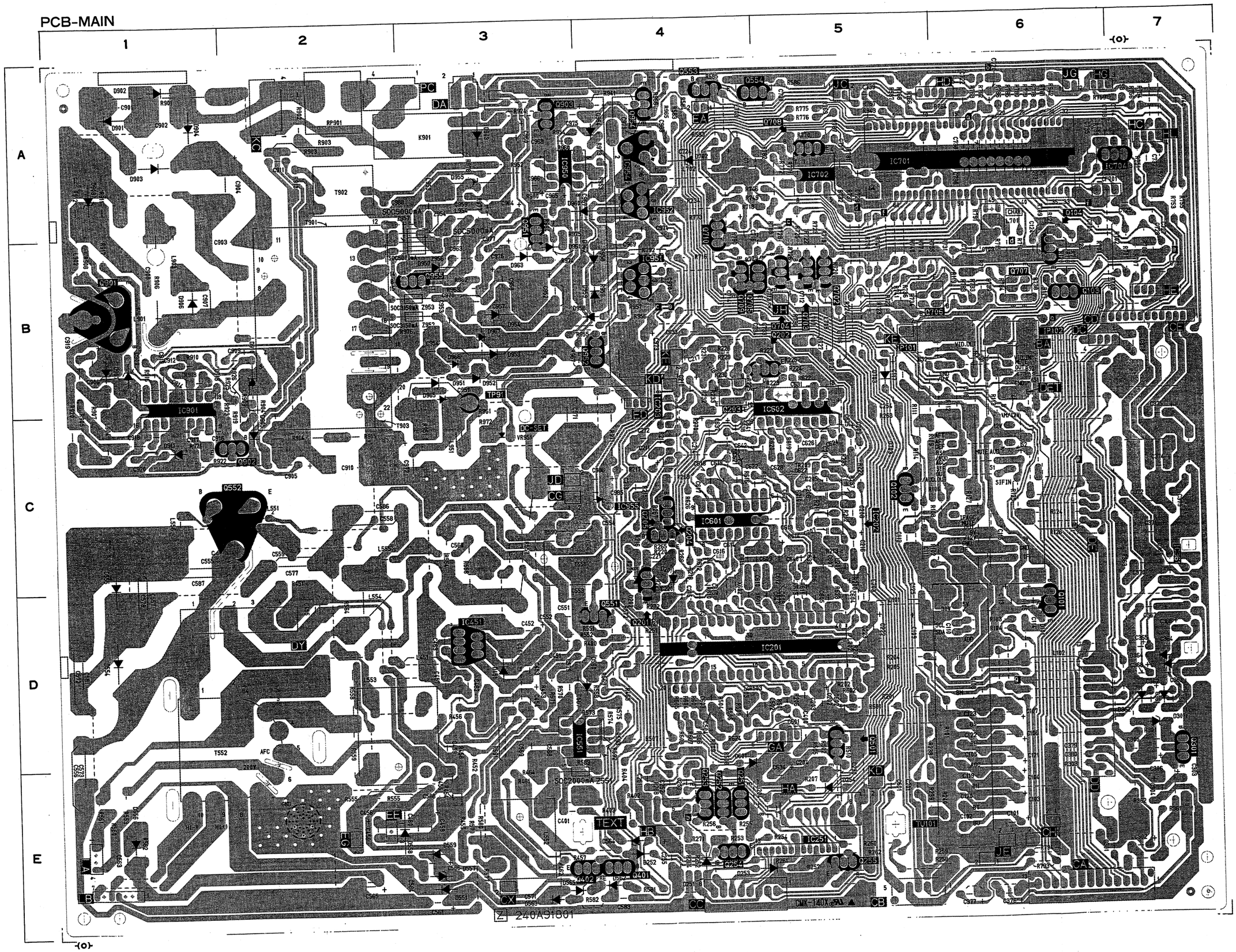
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PCB-MBC

PCB-CONTROL

PCB-SYNC-DET

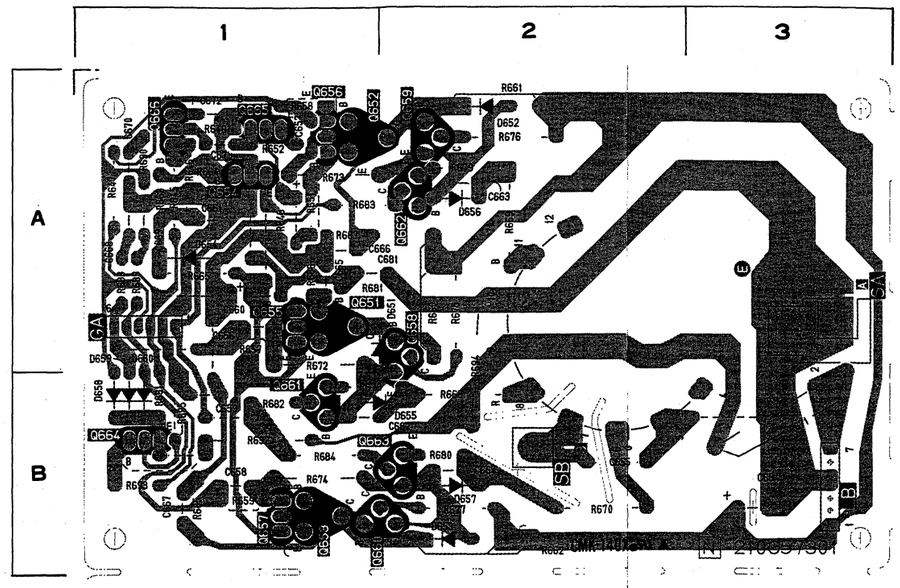
PCB-AV

PCB-POWER-SUB

CT-25A6FM
CT-29A6FM

MITS-00371 /Druck 6

PCB-CRT



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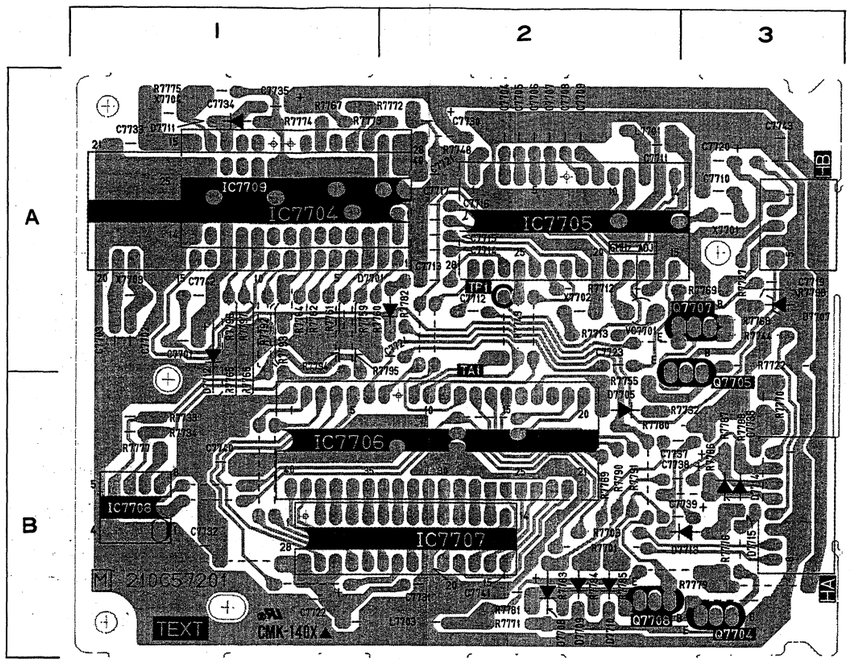

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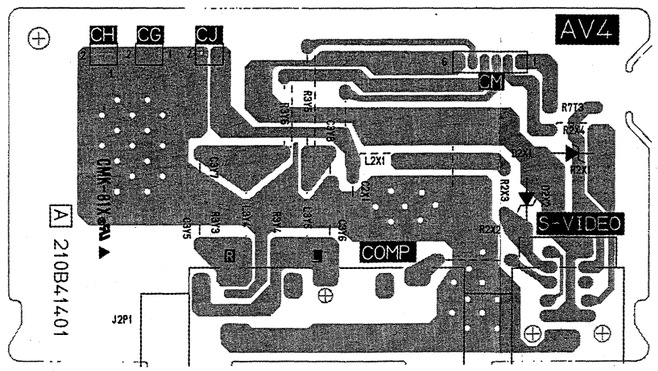

CT-25A6FM
CT-29A6FM

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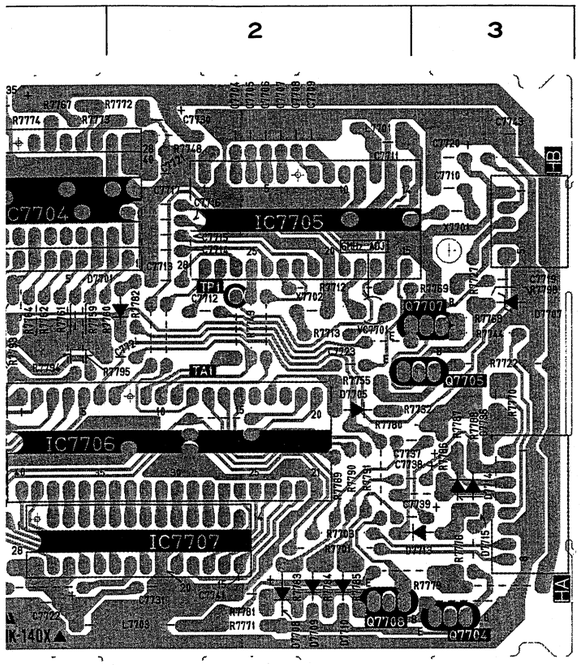
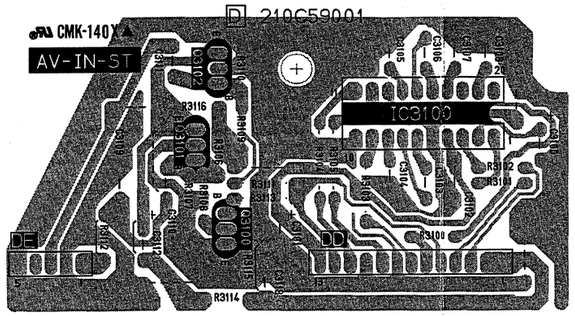
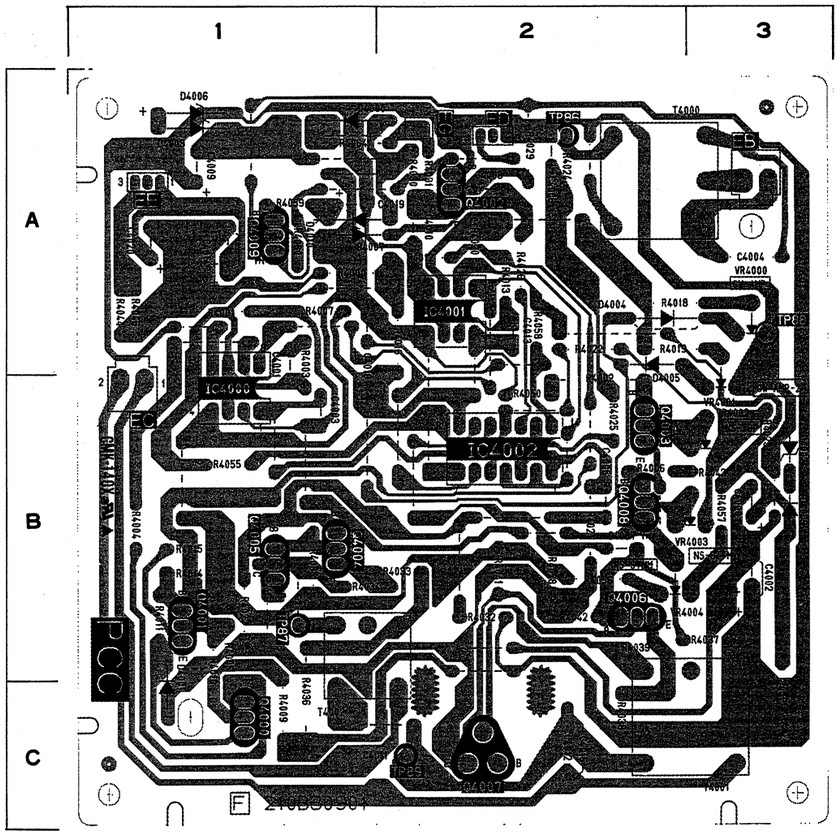


PCB AV-IN-ST



PCB-PCC (CT-29A6FM only)